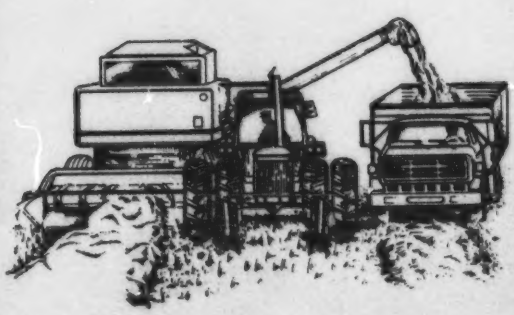
Saskatchewan Agriculture

Economics Branch

Farm Management



Farm Machinery Custom and Rental Rate Guide

1988

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Introduction

This publication gives detailed information regarding guidelines for machine ownership, operating costs, custom rates and rental rates for farm machinery. **This information is provided as a guideline and should be interpreted and adjusted for individual situations.**

The costs calculated in this booklet use the list price less a discount to arrive at an average selling price of a machine. Machine companies may reduce the actual selling price of the machinery below their suggested retail prices.

The intent of this booklet is to estimate both the ownership (fixed) and operating (variable) costs of owning machinery.

The farmer who has already invested in a machine for his own use may be in a position to do custom work for a neighbour for the suggested custom rate less the investment cost and still realize a return.

At the other end of the scale there may be individuals who have a custom farming business. In this instance all costs that are calculated must be included plus overhead costs (transportation, liability insurance, utility costs, advertising, shop equipment). Custom operators should determine these overhead costs before establishing their rates.

Assumptions

1. Interest on Investment is calculated at 10% (assumes 50% owned, 50% borrowed).
2. Diesel fuel is charged at $0.29 per litre, gasoline is charged at $0.31 per litre. Oil and grease is charged at $0.35 per 100 hp.
3. Labor is charged at $9.00 per hour.

The first section of this publication is a summary of calculated custom rates and rental rates of specific items. The remainder of this book contains detailed calculations that were used to arrive at the total costs of renting or custom operating farm equipment. To illustrate the total costs three separate tables are used.

1. Machinery Costs Information
2. Rental Rate Calculation
3. Custom Rate Calculation

Machinery Cost Table

The basis for the machine cost data is new cost of the equipment. This information was collected in December 1987 and January 1988 using the most current equipment pricing guides of the major equipment manufacturers and various shortline manufactureres. The manufacturers suggested retail price was discounted 15% on machines valued up to $50,000, 20% for machines valued between $50,000 and $100,000 and 25% for machines valued over $100,000.

The machine cost data is given for a wide variety of farm equipment, under different ranges of annual hours of use. The data is specific to each individual machine and details fixed costs (depreciation, investment cost, insurance and housing) and variable costs (repairs, fuel, oil and grease). The total cost per hour figure is the total cost of owning and operating that particular machine. In the case of drawn equipment, a power unit suitable to that drawn machine has been selected and the total cost of both the power unit and the drawn machine have been added together to arrive at an overall total cost for that operation.

Rental Rates Table

The rental rates section deals specifically with renting equipment for short time periods. The rates are not designed as lease rates, the rates would not be current for long term or seasonal lease arrangements.

Rental rates are calculated by adding the fixed costs (ownership costs) and repairs to arrive at the basic rental costs. The margin is calculated by multiplying the basic rental costs by 15%. The margin is added to cover risk, profit and management. The rental rates include an allowance for repair only. The renter is responsible for fuel and lubrication. No account is made to cover neglect by the renter. In the case of neglect, a settlement between the parties involved must be negotiated.

The rental rate is the addition of the basic rental costs and the margin. The rental rates are specific for each machine and if a complement (tractor and machine) is rented, the addition of the two machine rental rates should be used in establishing the rental rates of the complement. The average rental rate is the average rental rate for the middle number of hours.

Custom Rates Table

The custom rates section deals specifically with rates for custom work including both the machine(s) and operator. The basic custom work costs are calculated by summing the total costs of the power unit (if applicable), machine, and the labor allowance per hour. A margin to cover risk, profit, management and an incentive for the operator is calculated by multiplying the basic custom costs by 15%. The custom rate is then determined by adding the basic custom work costs and the margin. In all cases a basic labor rate of $9.00 per hour is used. The average custom rate is the average custom rate for the middle number of hours.

The information provided in all three segments of the table are based on average conditions and should be used as guides only.

Additional points to consider when negotiating a custom work agreement are outlined in Appendix G, along with a sample of a custom farming agreement.

This publication has been compiled by the farm management section, Economics Branch of Saskatchewan Agriculture and contributions of the many people that assisted with the compiling and reviewing of this material are acknowledged.

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A. How To Use This Bulletin

1. Use the table of contents to locate the machine you are interested in. Equipment is divided into the following sections: a. Powered, b. Drawn - Grain, c. Drawn - Livestock and Forage, d. Drawn - Miscellaneous. Equipment is listed alphabetically within each section.

2. Locate the size of machine to be used and the number of hours of annual use. The rental rate per hour and custom rate are calculated for each amount of usage.

3. If the machine you want the custom rate for does not correspond to one of the number of hours of use in this bulletin, or if you want to use a different investment cost you can calculate your own custom rate. Appendix D has a blank worksheet that can be used to calculate a custom rate with your specific information.

4. Some operations such as seeding, fertilizing or spraying require the use of a truck to haul seed, fertilizer or water to the field. The cost of the truck has not been included in the seeding, fertilizing or banding custom rates. For an example of calculating truck usage see Appendix A.

5. This bulletin uses the cost approach of calculating custom rates. The cost approach may differ from the market custom rate normally charged for some operations. In reality the forces of demand and supply will determine the custom rates charged by custom operators.

6. Because of rounding by the computer some of the calculations appear to be wrong by one or two cents. The calculated custom rate is the correct figure.

B. Summary of the 1988 Average Calculated Rental and Custom Rates

The following list is a summary of selected custom farming operations and their calculated custom and rental rates. These are calculated rates only and may require adjustment for individual situations. For example, the average calculated custom rates for combines is the average of conventional S.P., conventional P.T.O., Rotary S.P. and Rotary PTO combines. The average calculated custom rate is the average of the custom rates for each size of a particular machine for the middle number of hours of annual usage. The only exceptions are combine and spray coupe where the high number of hours of annual usage is averaged, to reflect the large number of acres covered by custom combines and custom sprayers. Detailed steps of how the rental and custom rates were calculated can be found in the preceding pages.

Powered Equipment	1988 Average Calculated Custom Rate	1988 Average Calculated Rental Rate	For Detailed Rates See Page:
Bale Wagons	$ .39/bale	$ .35/bale*	6
Combines	13.40/ac**	10.60/ac*	6
Spray Coupe	1.80/ac	1.50/ac	7
Swathers	6.95/ac	5.60/ac*	7
Tractors 2WD	.29-.53/PTO hp/hr	.13-.17/PTO hp/hr	8
Tractors 4WD	.27-.31/PTO hp/hr	.13-.16/PTO hp/hr	9
Drawn Equipment - Grain			
Air Seeders	$ 7.70/ac	$ 4.15/ac	10
Bulk applicators (granules)	1.70/ac	.70/ac	10
Cultivators, Field	3.15/ac	.70/ac	11
Cultivators, Heavy Duty	3.60/ac	.85/ac	12
Discers w/S.A., F.A.	5.60/ac	2.10/ac	13
Discs, Tandem	5.30/ac	1.75/ac	13
Drills, Disc & Hoe Press	9.70/ac	5.40/ac	15
Drills, No Till Hoe	14.50/ac	7.75/ac	15
Fertilizer Spreaders	2.05/ac	.80/ac	15
Harrow Drawbars & Harrows	1.55/ac	.45/ac	16
Harrow Packers	2.70/ac	1.15/ac	16
Plows	14.70/ac	6.20/ac	16
Pneumatic Grain Movers	.05/bu	.02/bu	16
Rodweeders	2.80/ac	1.00/ac	17

* The rental rate is an average of self propelled equipment only.
** An average of all combines SP and PTO.

Drawn Equipment - Livestock and Forage	1988 Average Calculated Custom Rate	1988 Average Calculated Rental Rate	For Detailed Rates See Page:
Balers - Large Round* (1500 lb bale)	7.12/bale	4.72/bale	19
Balers - Standard*	.34/bale	.20/bale	19
Bale Wagons PTO	.36/bale	.21/bale	20
Hay Rakes	5.90/ac	1.83/ac	21
Loose Hay Stackers		10.30/T.	21
Mowers	7.50/ac	2.80/ac	21
Mower Conditioners	12.00/ac	7.70/ac	22
Post Pounders	27.00/hr	5.60/hr	23

** excludes twine

Custom Trucking

- Custom Rate from farm to market is 7¢/bu. for the first 3 miles plus .7¢/bu. for each additional mile up to a total of 25 miles.
- Custom Rate from field to yard hauling from one combine is 11¢/bu. for the first mile plus .8¢/bu for each additional mile.

Powered Equipment

				MACHINE COMPONENT COSTS PER HOUR						MACHINE RENTAL PER HOUR			CUSTOM WORK RATES				
MACHINE SIZE	ORIG. COST	ANN HRS OF USE	FUEL TYPE + LITRES /HR.	FIXED COST $/HR	REPAIR COSTS $/HR.	FUEL COST $/HR	LUBE & OIL COSTS $/HR	TOTAL COSTS PER HOUR (NO LABOR) $/HR.	LABOUR COSTS $/HR	BASIC RENTAL COSTS $/HR	MARGIN $/HR.	RENTAL RATE $/HR.	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
BALE WAGONS SP																	$/BALE
160 BALE	77600	60	18	150.58	15.52	5.58	0.35	172.03		166.10	24.92	191.02	181.03	27.15	208.19		0.58
(100 HP)		100	(G)	97.00	15.52	5.58	0.35	118.45	9.00	112.52	16.88	129.40	127.45	19.12	146.57	375	0.39
		140		74.40	15.52	5.58	0.35	95.85		89.92	13.49	103.41	104.85	15.73	120.58	BLS/HR	0.32
									Average Rental Rate Per Bale			0.35			Average Custom Rate Per Bale		0.39
COMBINES SP ROTARY																	$/AC
SMALL	85800	120	19	95.98	25.74	5.51	0.42	127.65		121.72	18.26	139.97	136.65	20.50	157.14		22.45
		150	(D)	80.08	25.74	5.51	0.42	111.75	9.00	105.82	15.87	121.69	120.75	18.11	138.86	7.0	19.84
		180		69.98	25.74	5.51	0.42	101.65		95.72	14.36	110.08	110.65	16.60	127.25	AC/HR	18.18
		350		41.89	25.74	5.51	0.42	73.56		67.63	10.14	77.78	82.56	12.38	94.94		13.56
MEDIUM	106300	120	25	118.91	31.89	7.25	0.46	158.50		150.80	22.62	173.42	167.50	25.13	192.63		22.66
		150	(D)	99.21	31.89	7.25	0.46	138.81	9.00	131.10	19.67	150.77	147.81	22.17	169.98	8.5	20.00
		180		86.70	31.89	7.25	0.46	126.30		118.59	17.79	136.38	135.30	20.29	155.59	AC/HR	18.31
		350		51.90	31.89	7.25	0.46	91.49		83.79	12.57	96.36	100.49	15.07	115.57		13.60
LARGE	125300	120	32	140.16	37.59	9.28	1.05	188.08		177.75	26.66	204.41	197.08	29.56	226.64		18.89
		150	(D)	116.95	37.59	9.28	1.05	164.87	9.00	154.54	23.18	177.72	173.87	26.08	199.95	12.0	16.66
		180		102.20	37.59	9.28	1.05	150.12		139.79	20.97	160.76	159.12	23.87	182.99	AC/HR	15.25
		350		61.18	37.59	9.28	1.05	109.10		98.77	14.81	113.58	118.10	17.71	135.81		11.32
									Average Rental Rate Per Acre			10.64			Average Custom Rate Per Acre		12.63
COMBINES SP STANDARD																	$/AC
10000-	68900	120	23	77.07	20.67	6.67	0.42	104.83		97.74	14.66	112.40	113.83	17.07	130.91		23.80
12000 SQIN		150	(D)	64.31	20.67	6.67	0.42	92.07	9.00	84.98	12.75	97.72	101.07	15.16	116.23	5.5	21.13
		180		56.20	20.67	6.67	0.42	83.96		76.87	11.53	88.40	92.96	13.94	106.90	AC/HR	19.44
		350		33.84	20.67	6.67	0.42	61.40		54.31	8.15	62.46	70.40	10.56	80.96		14.72
12000-	92000	120	27	102.91	27.60	7.83	0.42	138.76		130.51	19.58	150.09	147.76	22.16	169.92		24.27
14000 SQIN		150	(D)	85.87	27.60	7.83	0.42	121.72	9.00	113.47	17.02	130.49	130.72	19.61	150.32	7.0	21.47
		180		75.04	27.60	7.83	0.42	110.89		102.64	15.40	118.04	119.89	17.98	137.87	AC/HR	19.70
		350		44.92	27.60	7.83	0.42	80.77		72.52	10.88	83.40	89.77	13.47	103.23		14.75
14000-	97300	120	30	108.84	29.19	8.70	0.46	147.18		138.03	20.70	158.73	156.18	23.43	179.61		19.96
17000 SQIN		150	(D)	90.81	29.19	8.70	0.46	129.16	9.00	120.00	18.00	138.00	138.16	20.72	158.88	9.0	17.65
		180		79.36	29.19	8.70	0.46	117.71		108.55	16.28	124.84	126.71	19.01	145.71	AC/HR	18.19
		350		47.61	29.19	8.70	0.46	85.85		76.70	11.50	88.20	94.85	14.23	109.08		12.12
17000 +	109700	120	32	122.71	32.91	9.28	0.63	165.53		155.62	23.34	178.96	174.53	26.18	200.71		20.07
SQIN		150	(D)	102.39	32.91	9.28	0.63	145.21	9.00	135.30	20.29	155.59	154.21	23.13	177.34	10.0	17.73
		180		89.48	32.91	9.28	0.63	132.30		122.39	18.36	140.75	141.30	21.19	162.49	AC/HR	18.25
		360		53.56	32.91	9.28	0.63	96.38		86.47	12.97	99.44	105.38	15.81	121.19		12.12
									Average Rental Rate Per Acre			10.56			Average Custom Rate Per Acre		13.43

Powered Equipment

MACHINE SIZE	ORIG COST	ANN HRS OF USE	FUEL TYPE + LITRES /HR	MACHINE COMPONENT COSTS PER HOUR: FIXED COST $/HR	REPAIR COSTS $/HR	FUEL COST $/HR	LUBE & OIL COSTS $/HR	TOTAL COSTS PER HOUR (NO LABOR) $/HR	LABOUR COSTS $/HR	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	CUSTOM WORK RATES: BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC CUSTOM RATE
GRAIN AUGERS																	
6 IN	2020	25	1	9 29	0 81	0 31	0 04	10 45									
33-37 FT		50	(G)	5 05	0 81	0 31	0 04	6 20									
(W/16 HP)		75		3 62	0 81	0 31	0 04	4 77									
7 IN	2300	25	1 4	10 58	0 92	0 43	0 06	11 99					SEE				
38-41 FT		50	(G)	5 75	0 92	0 43	0 06	7 16					GRAIN				
(W/18 HP)		75		4 12	0 92	0 43	0 06	5 53					HAULING				
8 IN	1990	25		9 15	0 80			9 95					SECTION				
40-51 FT		50		4 98	0 80			5 77									
PTO		75		3 56	0 80			4 36									
10 IN	4530	25		20 84	1 81			22 65									
60-70 FT		50		11 33	1 81			13 14									
PTO		75		8 11	1 81			9 92									
SPRAYERS SP																	$/AC
SPRAY	23400	70	8	90 81	21 06	2 48	0 26	114 62		111 87	16 78	128 66	123 62	18 54	142 16		2 84
COUP		150	(G)	58 50	21 06	2 48	0 26	82 30	9 00	79 56	11 93	91 49	91 30	13 70	105 00	50 0	2 10
		300		44 87	21 06	2 48	0 26	68 87		65 93	9 89	75 82	77 67	11 65	89 33	AC/HR	1 79
										Average Rental Rate Per Acre		1 52			Average Custom Rate Per Acre		1 79
NOTE To include the cost of hauling water to the field add $0 40 per acre																	
SWATHERS SP																	$/AC
18 FT	34800	60	12	67 53	6 96	3 77	0 26	78 52		74 49	11 17	85 66	87 52	13 13	100 65		11 84
STANDARD		100	(D)	43 50	6 96	3 77	0 26	54 49	9 00	50 46	7 57	58 03	63 49	9 52	73 02	8 5	8 59
TABLE		140		33 37	6 96	3 77	0 26	44 36		40 33	6 05	46 37	53 36	8 00	61 36	AC/HR	7 22
20-21 FT	37500	60	14	72 77	7 50	4 06	0 32	84 64		80 27	12 04	92 31	93 64	14 05	107 69		11 34
SLIDING		100	(D)	46 88	7 50	4 06	0 32	58 75	9 00	54 38	8 16	62 53	67 75	10 16	77 91	9 5	8 20
TABLE		140		35 95	7 50	4 06	0 32	47 83		43 45	6 52	49 97	56 83	8 52	65 35	AC/HR	6 88
24-25 FT	38200	60	14	74 13	7 64	4 06	0 32	86 14		81 77	12 26	94 03	95 14	14 27	109 41		9 51
SLIDING		100	(D)	47 75	7 64	4 06	0 32	59 77	9 00	55 39	8 31	63 70	68 77	10 31	79 08	11 5	6 88
TABLE		140		36 63	7 64	4 06	0 32	48 64		44 27	6 64	50 91	57 64	8 65	66 29	AC/HR	5 76

Powered Equipment

				MACHINE COMPONENT COSTS PER HOUR						MACHINE RENTAL PER HOUR			CUSTOM WORK RATES				
MACHINE SIZE	ORIG COST	ANN HRS OF USE	FUEL TYPE + LITRES /HR	FIXED COST $/HR	REPAIR COSTS $/HR	FUEL COST $/HR	LUBE & OIL COSTS $/HR	TOTAL COSTS PER HOUR (NO LABOR) $/HR	LABOUR COSTS $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC.* CUSTOM RATE
(SWATHERS CONT.)																	
30 FT	39500	60	15	76 65	7 90	4 35	0 32	89 21		84 55	12 68	**97.23**	98 21	14 73	112 95		8 07
SLIDING		**100**	(D)	**49.38**	**7 90**	**4 35**	**0.32**	**61 94**	**9 00**	**57.28**	**8.59**	**65.87**	**70 94**	**10.64**	**81.58**	**14 0**	**5 83**
TABLE		140		37 87	7 90	4 35	0 32	50 44		45 77	6 87	**52 64**	59 44	8 92	68 35	AC/HR	4 88
36 FT	42400	60	16	82 28	8 48	4 64	0 32	95 71		90 76	13 61	**104.37**	104 71	15 71	120 42		7 30
SLIDING		**100**	(D)	**53.00**	**8.48**	**4.64**	**0.32**	**66 44**	**9.00**	**61.48**	**9.22**	**70.70**	**75.44**	**11 32**	**86.75**	**16.5**	**5.26**
TABLE		140		40 65	8 48	4 64	0 32	54 09		49 13	7 37	**56.50**	63 09	9 46	72 55	AC/HR	4 40
									Average Rental Rate Per Acre			**5.59**			Average Custom Rate Per Acre		6.95
TRACTORS 2WD (PTO-HP)																	
30-39 HP	15700	400	8	4 99	1 31	2 32	0 12	8 74		6 30	0 94	**7.24**	17 74	2 66	20 40		
		600	(D)	**3 51**	**1 31**	**2 32**	**0 12**	**7.26**	**9.00**	**4 82**	**0 72**	**5 54**	**16.26**	**2.44**	**18 70**		
		800		2 81	1 31	2 32	0 12	6 56		4 12	0 62	**4.74**	15 56	2 33	17 90		
40-49 HP	19700	400	9	6 26	1 64	2 61	0 16	10 67		7 90	1 18	**9.08**	19 67	2 95	22 62		
		600	(D)	**4.41**	**1.64**	**2 61**	**0.16**	**8 82**	**9.00**	**6.05**	**0.91**	**6.96**	**17.82**	**2.67**	**20.49**		
		800		3 53	1 64	2 61	0 16	7 94		5 17	0 78	**5.94**	16 94	2 54	19 48		
50-59 HP	21900	400	10	6 96	1 82	2 90	0 19	11 87		8 78	1 32	**10 10**	20 87	3 13	24 00		
		600	(D)	**4 90**	**1.82**	**2.90**	**0.19**	**9.82**	**9.00**	**6.72**	**1.01**	**7.73**	**18.82**	**2.82**	**21 64**		
		800		3 92	1 82	2 90	0 19	8 84		5 75	0 86	**6.61**	17 84	2 68	20 51		
60-69 HP	24500	400	14	7 78	2 04	4 06	0 23	14 11		9 82	1 47	**11.30**	23 11	3 47	26 58		
		600	(D)	**5.48**	**2.04**	**4.06**	**0.23**	**11.81**	**9.00**	**7.52**	**1.13**	**8.65**	**20.81**	**3.12**	**23.93**		
		800		4 39	2 04	4 06	0 23	10 72		6 43	0 96	**7.39**	19 72	2 96	22 67		
70-79 HP	35700	400	16	11 34	2 97	4 64	0 26	19 22		14 31	2 15	**16.46**	28 22	4 23	32 45		
		600	(D)	**7.99**	**2 97**	**4.64**	**0.26**	**15.86**	**9.00**	**10.96**	**1.64**	**12.60**	**24.86**	**3.73**	**28.59**		
		800		6 39	2 97	4 64	0 26	14 27		9 37	1 41	**10.77**	23 27	3 49	26 76		
80-89 HP	39100	400	18	12 42	3 26	5 22	0 30	21 20		15 68	2 35	**18.03**	30 20	4 53	34 72		
		600	(D)	**8.75**	**3.26**	**5.22**	**0.30**	**17.52**	**9.00**	**12.00**	**1.80**	**13.81**	**26.52**	**3.98**	**30.50**		
		800		7 00	3 26	5 22	0 30	15 78		10 26	1 54	**11.80**	24 78	3 72	28 49		
90-99 HP	44800	400	20	14 23	3 73	5 80	0 33	24 10		17 96	2 69	**20.66**	33 10	4 96	38 06		
		600	(D)	**10.02**	**3.73**	**5.80**	**0.33**	**19.89**	**9.00**	**13.75**	**2.06**	**15.82**	**28.89**	**4.33**	**33.22**		
		800		8 02	3 73	5 80	0 33	17 89		11 75	1 76	**13.52**	26 89	4 03	30 92		
100-119 HP	51800	400	23	16 46	4 31	6 67	0 39	27 83		20 77	3 12	**23.89**	36 83	5 52	42 35		
		600	(D)	**11.59**	**4.31**	**6.67**	**0.39**	**22.96**	**9.00**	**15.90**	**2.39**	**18.29**	**31.96**	**4.79**	**36.75**		
		800		9 26	4 31	6 67	0 39	20 65		13 59	2 04	**15.63**	29 65	4 45	34 09		
120-139 HP	56900	400	28	18 08	4 74	8 12	0 46	31 39		22 82	3 42	**26.24**	40 39	6 06	46 45		
		600	(D)	**12.73**	**4.74**	**8.12**	**0.46**	**26.04**	**9.00**	**17.47**	**2.62**	**20.09**	**36.04**	**5.26**	**40.30**		
		800		10 19	4 74	8 12	0 46	23 50		14 93	2 24	**17.17**	32 50	4 88	37 38		
140-159 HP	62300	400	32	19 79	5 19	9 28	0 53	34 79		24 98	3 75	**28.73**	43 79	6 57	50 35		
		600	(D)	**13.94**	**5.19**	**9.28**	**0.53**	**28.93**	**9.00**	**19.13**	**2.87**	**22.00**	**37.93**	**5.69**	**43.62**		
		800		11 16	5 19	9 28	0 53	26 15		16 35	2 45	**18.80**	35 15	5 27	40 42		
160-179 HP	70200	400	39	22 30	5 85	11 31	0 60	40 05		28 15	4 22	**32.37**	49 05	7 36	56 41		
		600	(D)	**15.71**	**5.85**	**11.31**	**0.60**	**33.46**	**9.00**	**21.58**	**3.23**	**24.79**	**42.46**	**6.37**	**48.83**		
		800		12 57	5 85	11 31	0 60	30 32		18 42	2 76	**21.18**	39 32	5 90	45 22		

Powered Equipment

MACHINE SIZE	ORIG COST	ANN HRS OF USE	FUEL TYPE + LITRES /HR	MACHINE COMPONENT COSTS PER HOUR: FIELD COST $/HR	REPAIR COSTS $/HR	FUEL COST $/HR	LUBE & OIL COSTS $/HR	TOTAL COSTS PER HOUR (NO LABOR) $/HR	LABOUR COSTS $/HR	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	CUSTOM WORK RATES: BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
180 + HP	76300	400	39	24 24	6 36	11 31	0 63	42 53		30 59	4 59	35 18	51 53	7 73	59 26		
		600	(D)	17 07	6 36	11 31	0 63	35 37	9 00	23 43	3 51	26 94	44 37	6 65	51 02		
		800		13 66	6 36	11 31	0 63	31 96		20 02	3 00	23 02	40 96	6 14	47 10		
NOTE For MFWD add the following to the CUSTOM RATE $/HR				30 59HP add $0 044/HP/HR 60 120HP add $0 036/HP/HR over 120HP add $0 029/HP/HR													
TRACTORS 4WD (PTO HP)																	
100 149 HP	50370	400	35	16 00	3 36	10 15	0 44	29 95		19 36	2 90	22.26	38 95	5 84	44 79		
		600	(D)	11 27	3 36	10 15	0 44	25 22	9 00	14 63	2 19	16.82	34 22	5 13	39 35		
		800		9 02	3 36	10 15	0 44	22 97		12 38	1 86	14.24	31 97	4 80	36 76		
150 174 HP	79300	400	41	25 19	5 29	11 89	0 58	42 95		30 48	4 57	35.05	51 95	7 79	59 74		
		600	(D)	17 74	5 29	11 89	0 58	35.50	9 00	23 03	3.45	26.48	44.50	6.67	51.17		
		800		14 20	5 29	11 89	0 58	31 96		19 49	2 92	22.41	40 96	6 14	47 10		
175 199 HP	83700	400	46	26 59	5 58	13 34	0 67	46 18		32 17	4 83	37.00	55 18	8 28	63 45		
		600	(D)	18 73	5 58	13 34	0 67	38.31	9.00	24.31	3 65	27.95	47 31	7.10	54.41		
		800		14 99	5 58	13 34	0 67	34 58		20 57	3 09	23 66	43 58	6 54	50 11		
200 249 HP	102300	400	54	32 50	6 82	15 66	0 75	55 73		39 32	5 90	45.22	64 73	9 71	74 44		
		600	(D)	22 89	6 82	15 66	0 75	46 12	9.00	29.71	4 46	34.17	55.12	8.27	63.39		
		800		18 32	6 82	15 66	0 75	41 56		25 14	3 77	28.91	50 56	7 58	58 14		
250 300 HP	122600	400	64	38 95	8 18	18 56	0 93	66 61		47 12	7 07	54.19	75 61	11 34	86 95		
		600	(D)	27 43	8 18	18.56	0 93	55 09	9 00	35 81	5 34	40.95	64.09	9 61	73.71		
		800		21 95	8 18	18 56	0 93	49 62		30 13	4 52	34.65	58 62	8 79	67 41		
301 + HP	150700	400	82	47 87	10 05	23 78	1 05	82 76		57 92	8 69	86.61	91 76	13 76	105 52		
		600	(D)	33 71	10.05	23 78	1 05	68 60	9.00	43.77	6 56	50.33	77 60	11.64	89.24		
		800		26 99	10 05	23 78	1 05	61 87		37 04	5 56	42.59	70 87	10 63	81 50		
TRUCKS GRAIN																	
1 TON	17900	200	18	13 49	4 65	5 58	0 42	24 14		18 14	2 72	20.86	33 14	4 97	38 11		
		250	(G)	11 10	4 65	5 58	0 42	21.75	9.00	15.75	2 36	18.11	30.75	4.61	35.36		
		300		9 53	4 65	5 58	0 42	20 18		14 18	2 13	16.31	29 18	4 38	33 56		
3 TON	33050	200	23	24 91	8 59	7 13	0 42	41 05		33 50	5 02	38.52	50 05	7 51	57 56		
		250	(G)	20 49	8 59	7 13	0.42	36.63	9 00	29 08	4.36	33.45	45.63	6.85	52.48		
		300		17 60	8 59	7 13	0 42	33 74		26 19	3 93	30.12	42 74	6 41	49 15		
4 TON TANDEM DIESEL	49650	200	19	37 41	12 91	5 51	0 49	56 32		50 32	7 55	57.87	65 32	9 80	75 12		
		250	(D)	30.78	12 91	5.51	0.49	49.69	9.00	43.69	6.55	50.25	58.89	8.80	67.50		
		300		26 44	12 91	5 51	0 49	45 35		39 35	5 90	45.25	54 35	8 15	62 50		
3T and 4T trucks were priced with grain box,hoist,and roll tarp See appendix for custom grain hauling for seeding and harvesting																	
TRUCKS PICK-UP																	
1/2 TON	14500	200	14	10 93	2 84	4 34	0 35	18 46		13 77	2 07	15.83	27 46	4 12	31 58		
		250	(G)	8.99	2.84	4.34	0.35	16.52	9.00	11.83	1.77	13.61	25.52	3.83	29.35		
		300		7 72	2 84	4 34	0 35	15 25		10 56	1 58	12.15	24 25	3.64	27.89		
3/4 TON	16300	200	16	12 28	3 19	4 96	0 35	20 79		15 48	2 32	17.80	29 79	4 47	34 26		
		250	(G)	10.11	3 19	4.96	0.35	18.61	9.00	13.30	2.00	15.30	27.61	4.14	31.75		
		300		8 68	3 19	4 96	0 35	17 18		11 87	1 78	13.66	26 18	3.93	30.11		

Drawn Equipment — Grain

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
AIR SEEDERS INCL CULT																
24 FT	33800	100	39 86	10 14	50 00	50 00	7 50	57.50	50 00			85 05	12 76	97 81		9.78
		150	28.17	10.14	38.31	38.31	5.75	44.06	38.31	26.04	9.00	73.35	11.00	84.35	10	8.44
		200	22 25	10 14	32 39	32 39	4 86	37.25	32 39	130 HP		67 44	10 12	77 55	AC/HR	7.76
28-30 FT	40500	100	47 77	12 15	59 92	59 92	8 99	68.90	59 92			97 85	14 68	112 53		9.38
		150	33.75	12.15	45.90	45.90	6.89	52.79	45.90	26.93	9.00	83.83	12.57	96.41	12	8.03
		200	26 66	12 15	38 81	38 81	5 82	44.63	38 81	150 HP		76 74	11 51	88 26	AC/HR	7.35
34-35 FT	46700	100	55 08	14 01	69 09	69 09	10 36	79.45	69 09			111 55	16 73	128 28		8.85
		150	38.92	14.01	52.93	52.93	7.94	60.87	52.93	33.46	9.00	95.38	14.31	109.69	14.5	7.56
		200	30 74	14 01	44 75	44 75	6 71	51.47	44 75	170 HP		87 21	13 08	100 29	AC/HR	6.92
40-41 FT	51100	100	60 27	15 33	75 60	75 60	11 34	86.94	75 60			122 91	18 44	141 35		8.31
		150	42.58	15.33	57.91	57.91	8.69	66.60	57.91	38.31	9.00	105.23	15.78	121.01	17.0	7.12
		200	33 64	15 33	48 97	48 97	7 35	56.32	48 97	185 HP		96 28	14 44	110 73	AC/HR	6.51
46-47 FT	56200	100	66 28	16 86	83 14	83 14	12 47	95.61	83 14			138 27	20 74	159 00		8.37
		150	46.83	16.86	63.69	63.69	9.55	73.25	63.69	46.12	9.00	118.82	17.82	136.64	19 0	7.19
		200	37 00	16 86	53 86	53 86	8 08	61.94	53 86	225 HP		108 98	16 35	125 33	AC/HR	6.60
					Average Rental Rate Per Acre			4.02						Average Custom Rate Per Acre		7.67
Note: If equipped with mounted harrows add $0.41/AC If equipped with tow behind packers add $0.66/AC																
BULK APPLICATORS (GRANULES)																$/AC
41-46 FT	5900	60	14.44	1.84	16 28	16 28	2.44	18.72	16 28			35 10	5 26	40 36		1.83
		80	11.43	1.84	13.28	13.28	1.99	15.27	13.28	9.82	9.00	32.09	4.81	36.90	22.0	1.68
		100	9 74	1.84	11 58	11.58	1.74	13.32	11 58	55 HP		30 39	4 56	34 95	AC/HR	1.59
					Average Rental Rate Per Acre			0.69						Average Custom Rate Per Acre		1.68

Drawn Equipment — Grain

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG COST	ANN HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	BASIC RENTAL COSTS $/HR	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
COMBINES																$/AC
STANDARD	65800	120	73 60	30 71	104 31	104 31	15 65	119.96	104 31			142 24	21 34	163 58		20.45
PTO		150	61 41	30 71	92 12	92 12	13 82	105.94	92 12	28 93	9 00	130 05	19 51	149 56	8 0	18.70
12000-		180	53 67	30 71	84 38	84 38	12 66	97.04	84 38	150 HP		122 31	18 35	140 66	AC/HR	1. 38
15000 SQR IN		350	32 13	30.71	62 83	62 83	9.43	72.26	62 83			100.77	15 12	115.88		14.49
COMBINES	65000	120	72 71	30 34	103 04	103 04	15 46	118 50	103 04			145 50	21 83	167 33		15.21
ROTARY		150	60 67	30 34	91 00	91 00	13 65	104.65	91 00	33 46	9 00	133 46	20 02	153 48	11 0	13.95
PTO		180	53 02	30 34	83 35	83 35	12 50	95.86	83 35	160 HP		125 81	18 87	144 68	AC/HR	13.15
LARGE		350	31.74	30.34	62.07	62 07	9 31	71 38	62 07			104.53	15.68	120.21		10.93
					Average Rental Rate Per Acre			7 76						Average Custom Rate Per Acre		12.71
FIELD CULTIVATORS																$/AC
15 FT	3570	150	2 77	0 79	3 56	3 56	0 53	4.09	3 56			24 37	3 65	28 02		3.74
		250	1 79	0 79	2 57	2 57	0 39	2.96	2 57	11.81	9.00	23.38	3.51	26.89	7.5	3.58
		350	1 37	0 79	2 15	2 15	0 32	2.48	2 15	65 HP		22 96	3 44	26.41	AC/HR	3.52
20 FT	6400	150	4 97	1 41	6 38	6 38	0 96	7.33	6 38			32 90	4 93	37 83		3.78
		250	3 20	1.41	4.61	4 61	0.69	5.30	4.61	17.52	9.00	31 13	4.67	35.80	10.0	3.58
		350	2 45	1 41	3 86	3 86	0 58	4.44	3 86	85 HP		30 38	4 56	34 94	AC/HR	3.49
27FT	11200	150	8 69	2 46	11 16	11 16	1 67	12.83	11 16			43 12	6 47	49 58		3.67
		250	5.60	2.46	8 06	8 06	1.21	9.27	8.06	22.98	9.00	40.02	6.00	46.03	13.5	3.41
		350	4 30	2 46	6 76	6 76	1 01	7.77	6 76	110 HP		38 72	5 81	44 53	AC/HR	3.30
33 FT	14700	150	11 41	3 23	14 64	14 64	2 20	16.84	14 64			49 69	7 45	57 14		3.46
		250	7.35	3.23	10.58	10.58	1.59	12.17	10.58	26 04	9.00	45.63	6.84	52.47	16.5	3.18
		350	5 64	3 23	8 87	8 87	1 33	10.20	8 87	130 HP		43 92	6 59	50 50	AC/HR	3.06
41-45	16600	150	12 88	3 65	16 54	16 54	2 48	19.02	16 54			54 47	8 17	62 64		2.91
		250	8.30	3.65	11.95	11.95	1.79	13.74	11.95	28.93	9.00	49.88	7.48	57.37	21.5	2.67
		350	6 37	3 65	10 02	10.02	1 50	11.52	10 02	150 HP		47 95	7 19	55.14	AC/HR	2.56

Drawn Equipment — Grain

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
(FIELD CULTIVATORS CONT)																
46-50 FT	24200	150	18 78	5 32	24 11	24 11	3 62	27.72	24 11			66 57	9 98	76 55		3.19
		250	12.10	5.32	17.42	17.42	2.61	20.04	17.42	33.46	9.00	59.88	8.98	68.86	24.0	2.87
		350	9.28	5 32	14 61	14 61	2 19	16.80	14 61	170 HP		57 06	8 56	65 62	AC/HR	2.73
51-55 FT	27300	150	21 19	6 01	27 20	27 20	4 08	31.28	27 20			74 51	11 18	85 69		3.23
		250	13.65	6.01	19.66	19.66	2.95	22.60	19.66	38.51	9.00	66.97	10.06	77.01	26.5	2.91
		350	10.47	6.01	16.48	16.48	2 47	18.95	16 48	185 HP		63 79	9 57	73 36	AC/HR	2.77
56-60 FT	30300	150	23.52	6 67	30 18	30 18	4 53	34.71	30 18			85 31	12 80	98 10		3.38
		250	15.15	6.67	21.82	21.82	3.27	25.09	21.82	46.12	9.00	76.94	11.54	88.48	29 0	3.05
		350	11 62	6 67	18 29	18 29	2 74	21.03	18 29	225 HP		73 41	11 01	84 42	AC/HR	2.91
					Average Rental Rate Per Acre			0.69						Average Custom Rate Per Acre		3 16
* NOTE: IF EQUIPPED WITH MOUNTED HARROWS ADD $0.41 / ACRE																
																$/AC
CULTIVATORS HEAVY DUTY																
18-20 FT	9200	150	7.14	2 02	9.16	9 16	1.37	10.54	9.16			35 69	5 35	41 04		4.32
		250	4.80	2.02	6.82	6.82	0.99	7.82	6.82	17.52	9.00	33.15	4.97	38.12	9.5	4.01
		350	3.53	2 02	5.55	5.55	0.83	6.39	5.55	85 HP		32 07	4 81	36 89	AC/HR	3.88
21-22 FT	11300	150	8 77	2.49	11.26	11.26	1.69	12.95	11.26			43 22	6 48	49 70		4.52
		250	5.85	2.49	8.14	8.14	1.22	9.36	8.14	22.96	9.00	40 09	6.01	46.11	11 0	4.19
		350	4 33	2.49	6.82	6 82	1.02	7.84	6 82	110 HP		38 78	5 82	44 60	AC/HR	4 05
23-25 FT	12400	150	9 62	2 73	12.35	12 35	1 85	14.21	12.35			44.31	6 65	50 96		4.25
		250	6.20	2 73	8.93	8.93	1.34	10.27	8.93	22.96	9.00	40.89	6.13	47.02	12.0	3.92
		350	4.76	2.73	7.48	7 48	1 12	8.61	7 48	110 HP		39 44	5 92	45.36	AC/HR	3.78
27 FT	13700	150	10.63	3.01	13.65	13 65	2.05	15.69	13.65			48 69	7 30	56.00		4.15
		250	6.85	3.01	9.86	9.86	1.48	11.34	9.86	26.04	9.00	44.91	6.74	51.64	13.5	3.83
		350	5.25	3.01	8.27	8.27	1.24	9.51	8.27	130 HP		43.31	6 50	49 81	AC/HR	3.69
31 FT	15900	150	12.34	3.50	15.84	15 84	2.38	18.22	15.84			53 77	8 07	61 84		3.99
		250	7.95	3.50	11.45	11.45	1.72	13.17	11.45	28.93	9.00	49.38	7 41	56.79	15.5	3.66
		350	6 10	3 50	9 60	9 60	1.44	11.04	9 60	150 HP		47 53	7 13	54 66	AC/HR	3.53
33 FT	16400	150	12.73	3.61	16.34	16 34	2.45	18.79	16.34			54.27	8 14	62 41		3.78
		250	8.20	3.61	11.81	11.81	1.77	13.58	11.81	28.93	9.00	49.74	7.46	57.20	16.5	3.47
		350	6.29	3.61	9.90	9 90	1 48	11.38	9.90	150 HP		47 83	7 17	55 00	AC/HR	3.33
35 FT	17200	150	13.35	3.78	17.13	17 13	2.57	19.70	17.13			59.59	8 94	68 53		3.92
		250	8.60	3.78	12.38	12.38	1.86	14.24	12.38	33.46	9.00	54.84	8.23	63.07	17.5	3.60
		350	6.60	3.78	10.38	10.38	1.56	11.94	10.38	170 HP		52 84	7 93	60 76	AC/HR	3.47
37 FT	18000	150	13.97	3.96	17.93	17.93	2.69	20.62	17.93			60 39	9.06	69 45		3.75
		250	9.00	3.96	12.96	12.96	1.94	14.90	12.96	33.46	9.00	55.42	8.31	63.73	18.5	3.44
		350	6.90	3.96	10.86	10.86	1.63	12.49	10.86	170 HP		53 32	8.00	61.32	AC/HR	3.31
41 FT	18800	150	14.59	4.14	18.73	18.73	2.81	21.54	18.73			61.19	9.18	70.36		3.43
		250	9.40	4.14	13.54	13.54	2.03	15.57	13.54	33.46	9.00	55.99	8.40	64.39	20.5	3.14
		350	7.21	4.14	11.35	11.35	1.70	13.05	11.35	170 HP		53 80	8 07	61 87	AC/HR	3.02

Drawn Equipment — Grain

MACHINE SIZE	ORIG COST	ANN HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
(CULTIVATORS - HD CONT.)																$/AC
45-47 FT	28100	150	21.81	6.18	27.99	27.99	4.20	32.19	27.99			75.31	11.30	86.60		3.77
		250	14.05	6.18	20.23	20.23	3.03	23.27	20.23	38.31	9.00	67.54	10.13	77.68	23.0	3.38
		350	10.78	6.18	16.96	16.96	2.54	19.50	16.96	185 HP		64.27	9.64	73.91	AC/HR	3.21
58-60 FT	36300	150	28.18	7.99	36.16	36.16	5.42	41.58	36.16			91.28	13.69	104.98		3.50
		250	18.15	7.99	26.14	26.14	3.92	30.06	26.14	46.12	9.00	81.26	12.19	93.45	30.0	3.11
		350	13.92	7.99	21.91	21.91	3.29	25.19	21.91	225 HP		77.03	11.55	88.58	AC/HR	3.95
					Average Rental Rate Per Acre			0.86						Average Custom Rate Per Acre		3.61
* NOTE IF EQUIPPED WITH MOUNTED HARROWS ADD $0.41 / ACRE																
DISCERS W/SEED.FERT																$/AC
15-16 FT	9900	100	11.68	2.97	14.65	14.65	2.20	16.84	14.65			39.51	5.93	45.44		6.99
		150	8.25	2.97	11.22	11.22	1.68	12.90	11.22	15.86	9.00	36.08	5.41	41.50	6.5	6.38
		200	6.52	2.97	9.49	9.49	1.42	10.91	9.49	75 HP		34.35	5.15	39.50	AC/HR	6.08
24 FT	17100	100	20.17	5.13	25.30	25.30	3.79	29.09	25.30			57.26	8.59	65.84		6.58
		150	14.25	5.13	19.38	19.38	2.91	22.29	19.38	22.96	9.00	51.34	7.70	59.04	10.0	5.90
		200	11.26	5.13	16.39	16.39	2.46	18.85	16.39	110 HP		48.35	7.25	55.60	AC/HR	5.56
30-32 FT	19900	100	23.47	5.97	29.44	29.44	4.42	33.86	29.44			67.37	10.11	77.48		6.20
		150	16.58	5.97	22.55	22.55	3.38	25.94	22.55	28.93	9.00	60.49	9.07	69.56	12.5	5.56
		200	13.10	5.97	19.07	19.07	2.86	21.93	19.07	150 HP		57.00	8.55	65.55	AC/HR	5.24
36 FT	25400	100	29.96	7.62	37.58	37.58	5.64	43.21	37.58			75.51	11.33	86.84		5.79
		150	21.17	7.62	28.79	28.79	4.32	33.10	28.79	28.93	9.00	66.72	10.01	76.73	15.0	5.12
		200	16.72	7.62	24.34	24.34	3.65	27.99	24.34	150 HP		62.27	9.34	71.61	AC/HR	4.77
45 FT	29600	100	34.91	8.88	43.79	43.79	6.57	50.36	43.79			91.10	13.67	104.77		5.51
		150	24.67	8.88	33.55	33.55	5.03	38.58	33.55	38.31	9.00	80.86	12.13	92.99	19.0	4.89
		200	19.49	8.88	28.37	28.37	4.26	32.62	28.37	185 HP		75.68	11.35	87.03	AC/HR	4.58
					Average Rental Rate Per Acre			2.11						Average Custom Rate Per Acre		5.57
DISCS TANDEM																$/AC
12-14 FT	7200	100	8.49	2.16	10.65	10.65	1.60	12.25	10.65			31.46	4.72	36.18		5.57
		150	6.00	2.16	8.16	8.16	1.22	9.38	8.16	11.81	9.00	28.97	4.35	33.31	6.5	5.13
		200	4.74	2.16	6.90	6.90	1.04	7.94	6.90	65 HP		27.71	4.16	31.87	AC/HR	4.90
15-17 FT	9400	100	11.09	2.82	13.91	13.91	2.09	15.99	13.91			40.43	6.06	46.49		5.81
		150	7.83	2.82	10.65	10.65	1.60	12.25	10.65	17.52	9.00	37.18	5.58	42.75	8.0	5.34
		200	6.19	2.82	9.01	9.01	1.35	10.36	9.01	85 HP		35.53	5.33	40.86	AC/HR	5.11
18-19 FT	12800	100	15.10	3.84	18.94	18.94	2.84	21.78	18.94			45.46	6.82	52.28		6.53
		150	10.67	3.84	14.51	14.51	2.18	16.68	14.51	17.52	9.00	41.03	6.15	47.18	8.0	5.90
		200	8.43	3.84	12.27	12.27	1.84	14.11	12.27	85 HP		38.79	5.82	44.61	AC/HR	5.58

Drawn Equipment — Grain

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
20-22 FT	14500	100	17 10	4 35	21.45	21.45	3 22	24 67	21.45			53 41	8 01	61 42		5.85
		150	12.08	4.35	16.43	16.43	2.46	18.90	16.43	22.96	9.00	48.39	7.26	55.65	10 5	5.30
		200	9 55	4 35	13.90	13.90	2 08	15.98	13 90	110 HP		45 85	6 88	52 73	AC/HR	5.02
23-25 FT	17100	100	20.17	5 13	25 30	25 30	3 79	29.09	25 30			60 34	9 05	69 39		5 78
		150	14.25	5.13	19.38	19.38	2.91	22.29	19.38	26 04	9.00	54.42	8.16	62.59	12 0	5 22
		200	11.26	5 13	16.39	16.39	2.46	18.85	16 39	130 HP		51 43	7 71	59 15	AC/HR	4 93
26-28 FT	20260	100	23.89	6 08	29.97	29 97	4 50	34.47	29 97			67 91	10 19	78 09		5.78
		150	16.88	6.08	22.96	22.96	3.44	26.41	22.96	28.93	9.00	60.89	9 13	70.03	13.5	5.19
		200	13 34	6 08	19 42	19 42	2 91	22.33	19 42	150 HP		57 35	8 60	65 95	AC/HR	4.89
29-31 FT	22700	100	26 77	6 81	33 58	33 58	5 04	38.62	33 58			80 90	12 13	93 03		6.20
		150	18.92	6.81	25.73	25.73	3.86	29.59	25.73	38.31	9.00	73 04	10.96	84 00	15 0	5.60
		200	14 94	6 81	21.75	21.75	3 26	25.02	21 75	185 HP		69 07	10 36	79 43	AC/HR	5.30
					Average Rental Rate Per Acre			1.76						Average Custom Rate Per Acre		5.30
DRILLS DISC PRESS																$/AC
8-10 FT	9400	60	18 24	4 23	22 47	22 47	3 37	25.84	22 47			41 29	6 19	47 48		13.57
		100	11.75	4.23	15.98	15.98	2.40	18.38	15.98	9.82	9.00	34.80	5.22	40 02	3.5	11.43
		140	9 01	4 23	13 24	13.24	1 99	15.23	13.24	55 HP		32 06	4 81	36 87	AC/HR	10.53
14-16 FT	18100	60	35 12	8 15	43 27	43 27	6 49	49.76	43 27			69 79	10 47	80 26		12.35
		100	22.63	8.15	30.77	30.77	4.62	35.39	30.77	17.52	9.00	57.29	8.59	65.89	6.5	10.14
		140	17.35	8.15	25.50	25.50	3.82	29.32	25.50	85 HP		52 02	7 80	59 82	AC/HR	9.20
24 FT	27500	60	53.36	12 38	65 74	65.74	9.86	75.60	65.74			97.70	14 65	112 35		11.24
		100	34.38	12.38	46.75	46.75	7.01	53.76	46.75	22.96	9.00	78.71	11.81	90.51	10.0	9.05
		140	26.37	12.38	38.74	38.74	5.81	44.55	38 74	110 HP		70 70	10 61	81 31	AC/HR	8.13
28-30 FT	36700	60	71.22	16.52	87.73	87.73	13.16	100.89	87.73			122 77	18.42	141 19		11.77
		100	45.88	16.52	62.39	62.39	9.36	71.75	62.39	26.04	9.00	97.43	14.62	112.05	12.0	9.34
		140	35.19	16.52	51.70	51.70	7.76	59.46	51.70	130 HP		86 75	13 01	99 76	AC/HR	8.31
40-42 FT	49000	60	95.08	22 05	117.13	117.13	17 57	134.70	117 13			159 59	23 94	183 53		10.80
		100	61.25	22.05	83.30	83.30	12.50	95.80	83.30	33.46	9.00	125.76	18.86	144.62	17.0	8.51
		140	46 98	22 05	69.03	69.03	10 35	79.39	69 03	170 HP		111 49	16 72	128 21	AC/HR	7.54
					Average Rental Rate Per Acre			5.84						Average Custom Rate Per Acre		9.69

Drawn Equipment — Grain

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
DRILLS																
HOE PRESS																$/AC
7-10 FT	9350	60	18.14	4.21	22.35	22.35	3.35	25.70	22.35			43.16	6.47	49.63		14.18
		100	11.89	4.21	15.90	15.90	2.38	18.28	15.90	11.81	9.00	36.70	5.51	42.21	3.5	12.06
		140	8.96	4.21	13.17	13.17	1.98	15.15	13.17	65 HP		33.98	5.10	39.08	AC/HR	11.17
14-16 FT	16100	60	31.24	7.25	38.49	38.49	5.77	44.26	38.49			63.35	9.50	72.85		11.21
		100	20.13	7.25	27.37	27.37	4.11	31.48	27.37	15.86	9.00	52.23	7.83	60.07	8.5	9.24
		140	15.44	7.25	22.68	22.68	3.40	26.08	22.68	75 HP		47.54	7.13	54.68	AC/HR	8.41
20-21 FT	21200	60	41.14	9.54	50.68	50.68	7.60	58.28	50.68			82.64	12.40	95.03		11.18
		100	26.50	9.54	36.04	36.04	5.41	41.45	36.04	22.96	9.00	68.00	10.20	78.20	8.5	9.20
		140	20.33	9.54	29.87	29.87	4.48	34.35	29.87	110 HP		61.82	9.27	71.10	AC/HR	8.36
24 FT	26300	60	51.03	11.84	62.87	62.87	9.43	72.30	62.87			97.91	14.69	112.60		11.26
		100	32.88	11.84	44.71	44.71	6.71	51.42	44.71	26.04	9.00	79.75	11.96	91.72	10.0	9.17
		140	25.22	11.84	37.05	37.05	5.56	42.61	37.05	130 HP		72.10	10.81	82.91	AC/HR	8.29
28-30 FT	35100	60	68.11	15.80	83.91	83.91	12.59	96.49	83.91			121.84	18.28	140.11		11.68
		100	43.88	15.80	59.67	59.67	8.95	68.62	59.67	28.93	9.00	97.60	14.64	112.24	12.0	9.35
		140	33.65	15.80	49.45	49.45	7.42	56.87	49.45	150 HP		87.38	13.11	100.49	AC/HR	8.37
40-42 FT	48800	60	94.70	21.96	116.66	116.66	17.50	134.15	116.66			163.97	24.60	188.56		11.09
		100	61.00	21.96	82.96	82.96	12.44	95.40	82.96	38.31	9.00	130.27	19.54	149.81	17.0	8.81
		140	46.79	21.96	68.75	68.75	10.31	79.06	68.75	185 HP		116.06	17.41	133.47	AC/HR	7.85
					Average Rental Rate Per Acre			5.24						Average Custom Rate Per Acre		9.84
DRILLS																
NO TILL DISC																$/AC
10.5 FT	18500	60	35.90	8.33	44.22	44.22	6.63	50.86	44.22			70.75	10.61	81.36		20.34
		100	23.13	8.33	31.45	31.45	4.72	36.17	31.45	17.52	9.00	57.97	8.70	66.67	4.0	16.67
		140	17.74	8.33	26.06	26.06	3.91	29.97	26.06	85 HP		52.58	7.89	60.47	AC/HR	15.12
21 FT	37900	60	73.54	17.06	90.60	90.60	13.59	104.19	90.60			133.06	19.96	153.02		19.13
		100	47.38	17.06	64.43	64.43	9.66	74.09	64.43	33.46	9.00	108.89	16.03	122.92	8.0	15.37
		140	36.34	17.06	53.39	53.39	8.01	61.40	53.39	170 HP		95.85	14.38	110.23	AC/HR	13.78
31.5 FT	55400	60	107.50	24.93	132.43	132.43	19.86	152.30	132.43			187.55	28.13	215.69		17.97
		100	69.25	24.93	94.18	94.18	14.13	108.31	94.18	46.12	9.00	148.30	22.40	171.70	12.0	14.31
		140	53.12	24.93	78.05	78.05	11.71	89.75	78.05	225 HP		133.17	19.98	153.14	AC/HR	12.76
					Average Rental Rate Per Acre			9.11						Average Custom Rate Per Acre		15.45
DRILLS																
NO TILL HOE																$/AC
8 FT	12200	60	23.67	5.49	29.16	29.16	4.37	33.54	29.16			49.97	7.50	57.47		19.16
		100	15.25	5.49	20.74	20.74	3.11	23.85	20.74	11.81	9.00	41.66	6.23	47.78	3.0	15.93
		140	11.70	5.49	17.19	17.19	2.58	19.77	17.19	85 HP		38.00	5.70	43.70	AC/HR	14.57
16 FT	23600	60	45.80	10.62	56.42	56.42	8.46	64.88	56.42			91.46	13.72	105.18		17.53
		100	29.50	10.62	40.12	40.12	6.02	46.14	40.12	26.04	9.00	75.16	11.27	86.44	6.0	14.41
		140	22.63	10.62	33.25	33.25	4.99	38.23	33.25	130 HP		68.29	10.24	78.54	AC/HR	13.09
24 FT	35100	60	68.11	15.80	83.91	83.91	12.59	96.49	83.91			126.27	19.24	147.51		18.39
		100	43.88	15.80	59.67	59.67	8.95	68.62	59.67	35.37	9.00	104.04	15.81	119.84	8.0	13.29
		140	33.65	15.80	49.45	49.45	7.42	56.87	49.45	180 HP		93.81	14.07	107.89	AC/HR	11.99
					Average Rental Rate Per Acre			8.82						Average Custom Rate Per Acre		14.64
FERTILIZER																
BULK SPREADERS																$/AC
5 TON	6800	60	16.64	3.06	19.70	19.70	2.95	22.65	19.70			46.22	6.93	53.15		2.21
		100	13.18	3.06	16.24	16.24	2.44	18.67	16.24	17.52	9.00	42.76	6.41	49.17	24.0	2.05
		140	11.22	3.06	14.28	14.28	2.14	16.42	14.28	85 HP		40.80	6.12	46.92	AC/HR	1.96
					Average Rental Rate Per Acre			0.76						Average Custom Rate Per Acre		1.86

Drawn Equipment — Grain

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
HARROW DRBR HYD W/HARROWS																$/AC
40 FT	5200	60	9.61	2.24	11.85	11.85	1.78	13.63	11.85			32.66	4.90	37.56		1.88
		100	6.13	2.24	8.37	8.37	1.26	9.62	8.37	11.81	9.00	29.18	4.38	33.56	20.0	1.68
		140	4.64	2.24	6.88	6.88	1.03	7.91	6.88	65 HP		27.69	4.15	31.84	AC/HR	1.59
45-50 FT	6100	60	11.28	2.62	13.90	13.90	2.08	15.98	13.90			40.42	6.06	46.48		1.86
		100	7.19	2.62	9.82	9.82	1.47	11.29	9.82	17.52	9.00	36.34	5.45	41.79	25.0	1.67
		140	5.45	2.62	8.07	8.07	1.21	9.28	8.07	85 HP		34.59	5.19	39.78	AC/HR	1.59
60 FT	6900	60	12.76	2.97	15.72	15.72	2.36	18.08	15.72			44.61	6.69	51.30		1.71
		100	8.14	2.97	11.10	11.10	1.67	12.77	11.10	19.89	9.00	39.99	6.00	45.99	30.0	1.53
		140	6.16	2.97	9.13	9.13	1.37	10.50	9.13	95 HP		38.01	5.70	43.72	AC/HR	1.46
80 FT	8400	60	15.53	3.61	19.14	19.14	2.87	22.01	19.14			51.10	7.66	58.76		1.47
		100	9.91	3.61	13.52	13.52	2.03	15.55	13.52	22.96	9.00	45.48	6.82	52.30	40.0	1.31
		140	7.50	3.61	11.11	11.11	1.67	12.78	11.11	110 HP		43.07	6.46	49.53	AC/HR	1.24
					Average Rental Rate Per Acre			0.44						Average Custom Rate Per Acre		1.55
HARROW PACKERS																$/AC
30-34 FT	11000	60	20.34	4.73	25.07	25.07	3.76	28.82	25.07			51.59	7.74	59.32		3.95
		100	12.97	4.73	17.70	17.70	2.66	20.36	17.70	17.52	9.00	44.23	6.63	50.86	15.0	3.39
		140	9.82	4.73	14.55	14.55	2.18	16.73	14.55	85 HP		41.07	6.16	47.23	AC/HR	3.15
45-50 FT	14500	60	26.81	6.24	33.04	33.04	4.96	38.00	33.04			65.00	9.75	74.75		3.11
		100	17.10	6.24	23.34	23.34	3.50	26.84	23.34	22.96	9.00	55.30	8.29	63.59	24.0	2.65
		140	12.95	6.24	19.18	19.18	2.88	22.06	19.18	110 HP		51.14	7.67	58.81	AC/HR	2.45
60-70 FT	17950	60	33.18	7.72	40.90	40.90	6.14	47.04	40.90			78.83	11.83	90.66		2.79
		100	21.17	7.72	28.89	28.89	4.33	33.22	28.89	28.93	9.00	66.82	10.02	76.84	32.5	2.36
		140	16.03	7.72	23.75	23.75	3.56	27.31	23.75	150 HP		61.68	9.25	70.93	AC/HR	2.18
80 FT	22300	60	41.22	9.59	50.81	50.81	7.62	58.44	50.81			95.18	14.28	109.46		2.74
		100	26.30	9.59	35.89	35.89	5.38	41.27	35.89	35.37	9.00	80.26	12.04	92.29	40.0	2.31
		140	19.91	9.59	29.50	29.50	4.42	33.92	29.50	180 HP		73.87	11.08	84.94	AC/HR	2.68
					Average Rental Rate Per Acre			1.13						Average Custom Rate Per Acre		2.68
PLOWS																
7.5 FT	10500	100	12.22	5.78	18.00	18.00	2.70	20.70	18.00			38.81	5.82	44.63		14.88
5-FURROW		150	8.75	5.78	14.53	14.53	2.18	16.70	14.53	11.81	9.00	35.33	5.30	40.63	3.0	13.54
		200	7.05	5.78	12.82	12.82	1.92	14.75	12.82	65 HP		33.63	5.04	38.68	AC/HR	12.89
9 FT	13400	100	15.60	7.37	22.97	22.97	3.45	26.42	22.97			51.86	7.78	59.64		17.04
6-FURROW		150	11.17	7.37	18.54	18.54	2.78	21.32	18.54	19.89	9.00	47.42	7.11	54.54	3.5	15.58
		200	8.99	7.37	16.36	16.36	2.45	18.82	16.36	95 HP		45.25	6.79	52.04	AC/HR	14.87
12 FT	16500	100	19.21	9.08	28.29	28.29	4.24	32.53	28.29			63.33	9.50	72.83		18.18
8-FURROW		150	13.75	9.08	22.83	22.83	3.42	26.25	22.83	26.04	9.00	57.87	8.68	66.55	4.5	14.79
		200	11.07	9.08	20.15	20.15	3.02	23.17	20.15	120 HP		55.19	8.28	63.47	AC/HR	14.10
18 FT	30100	100	35.05	16.56	51.60	51.60	7.74	59.34	51.60			94.06	14.11	108.17		16.64
12 FURROW		150	25.08	16.56	41.64	41.64	6.25	47.89	41.64	33.48	9.00	84.10	12.61	96.71	6.5	14.88
		200	20.20	16.56	36.76	36.76	5.51	42.27	36.76	160 HP		79.21	11.88	91.10	AC/HR	14.01
					Average Rental Rate Per Acre			6.21						Average Custom Rate Per Acre		14.70
PNEUMATIC GRAIN MOVERS																$/BU
1000-1500	7700	25	35.42	3.08	38.50	38.50	5.78	44.28	38.50			63.36	9.50	72.87		0.07
BUS/HR		50	19.25	3.08	22.33	22.33	3.35	25.68	22.33	15.86	9.00	47.19	7.08	54.27	1,100.0	0.05
		75	13.78	3.08	16.86	16.86	2.53	19.39	16.86	75 HP		41.72	6.26	47.98	BU/HR	0.04
1500-2000	10300	25	47.38	4.12	51.50	51.50	7.73	59.23	51.50			80.39	12.06	92.44		0.06
BUS/HR		50	25.75	4.12	29.87	29.87	4.48	34.35	29.87	19.89	9.00	58.76	8.81	67.57	1,650.0	0.04
		75	18.43	4.12	22.55	22.55	3.38	25.94	22.55	95 HP		51.44	7.72	59.16	BU/HR	0.04
					Average Rental Rate Per Bus.			0.02						Average Custom Rate Per Bus.		0.05

Drawn Equipment — Grain

MACHINE SIZE	ORIG COST	ANN HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
RODWEEDERS																$/AC
24 FT	3900	60	7 57	2 15	9 71	9 71	1 46	11.17	9 71			30 52	4 58	35 10		2.93
		100	4 88	2.15	7.02	7.02	1 05	8.07	7 02	11.81	9.00	27.83	4.17	32.00	12.0	2.67
		140	3 74	2 15	5 88	5 88	0 88	6.77	5 88	65 HP		26 69	4 00	30 70	AC/HR	2.56
28-30 FT	6500	60	12 61	3 58	16 19	16 19	2 43	18.62	16 19			41 05	6 16	47 21		3.26
		100	8.13	3.58	11.70	11.70	1.76	13.46	11.70	15 86	9.00	36 56	5.48	42 05	14.5	2.90
		140	6 23	3 58	9 81	9 81	1 47	11.28	9 81	75 HF		34 67	5 20	39 87	AC/HR	2.75
36 FT	7300	60	14 17	4 02	18 18	18 18	2 73	20.91	18 18			47 07	7 06	54 13		3 01
		100	9.13	4.02	13.14	13.14	1.97	15.11	13.14	19.89	9.00	42.03	6.30	48.33	18.0	2.69
		140	7 00	4 02	11 01	11 01	1 65	12.67	11 01	95 HP		39 90	5 99	45 89	AC/HR	2.55
48 FT	10800	60	20 96	5 94	26 90	26 90	4 03	30.93	26 90			58 86	8 83	67 68		2.82
		100	13.50	5.94	19.44	19.44	2.92	22.36	19 44	22.96	9.00	51 40	7 71	59 11	24.0	2.46
		140	10 35	5 94	16 29	16 29	2 44	18.74	16 29	110 HP		48 25	7 24	55 49	AC/HR	2.31
56 FT	15700	60	30 47	8 64	39 10	39 10	5 87	44 97	39 10			74 14	11 12	85 27		3 05
		100	19.63	8.64	28.26	28.26	4.24	32.50	28.26	26.04	9.00	63.30	9.50	72.80	28.0	2.60
		140	15 05	8 64	23 69	23 69	3 55	27.24	23 69	130 HP		58 73	8 81	67 54	AC/HR	2.41
64 FT	19900	60	32 79	9 30	42 09	42 09	6 31	48.40	42 09			80 02	12 00	92 02		2.88
		100	21.13	9.30	30.42	30.42	4.56	34.98	30 42	28.93	9.00	68.35	10.25	78.61	32.0	2.46
		140	16 20	9 30	25 50	25 50	3 82	29.32	25 50	150 HP		63 43	9 51	72 95	AC/HR	2.28
					Average Rental Rate Per Acre			0.94						Average Custom Rate Per Acre		2.63
RODWEEDERS WITH MULTIPLEX OR VIBRATILLER																$/AC
24 FT	5000	60	9 70	2 75	12 45	12 45	1 87	14.32	12 45			37 32	5 60	42 91		3.58
		100	6.25	2.75	9.00	9.00	1.35	10.35	9.00	15.86	9.00	33.86	5.08	38.94	12.0	3.25
		140	4 79	2 75	7 54	7 54	1 13	8.68	7 54	75 HP		32 41	4 86	37 27	AC/HR	3.11
28-30 FT	7600	60	14 75	4 18	18 93	18 93	2 84	21.77	18 93			45 45	6 82	52 27		3.80
		100	9.50	4.18	13.68	13.68	2.05	15.73	13.68	17.52	9.00	40.20	6.03	46.23	14.5	3.19
		140	7 29	4 18	11 47	11 47	1 72	13.19	11 47	85 HP		37 99	5 70	43 69	AC/HR	3.01
36 FT	8600	60	16 69	4 73	21 42	21 42	3 21	24.63	21 42			53 38	8 01	61 38		3.41
		100	10.75	4.73	15.48	15.48	2.32	17.80	15 48	22.96	9.00	47.44	7.12	54.55	18.0	3.03
		140	8 25	4 73	12 98	12 98	1 95	14.92	12 98	110 HP		44 93	6 74	51 67	AC/HR	2.87
48 FT	12600	60	24 45	6 93	31 38	31 38	4 71	36.09	31 38			63 34	9 50	72 84		3.03
		100	15.75	6.93	22.68	22.68	3.40	26.08	22 68	22.96	9.00	54.64	8.20	62.83	24.0	2.62
		140	12 08	6 93	19 01	19 01	2 85	21.86	19 01	110 HP		50 97	7 65	58 61	AC/HR	2.44
56 FT	16900	60	32 79	9 30	42 09	42 09	6 31	48.40	42 09			77 13	11 57	88 70		3.17
		100	21.13	9.30	30.42	30.42	4.56	34.98	30 42	26.04	9.00	65.46	9.82	75.28	28.0	2.69
		140	16 20	9 30	25 50	25 50	3 82	29.32	25 50	130 HP		60 54	9 08	69 62	AC/HR	2.48
64 FT	18300	60	35 51	10 07	45 58	45 58	6 84	52.41	45 58			88 03	13 21	101 24		3.16
		100	22.88	10.07	32.94	32.94	4.94	37.88	32 94	33.46	9.00	75.40	11.31	86.71	32.0	2.71
		140	17 55	10 07	27 61	27 61	4 14	31.75	27 61	170 HP		70 07	10 51	80 58	AC/HR	2.52
					Average Rental Rate Per Acre			1.08						Average Custom Rate Per Acre		2.91

* NOTE IF EQUIPPED WITH MOUNTED HARROWS ADD $0.41 / AC

Drawn Equipment — Grain

MACHINE SIZE	ORIG COST	ANN HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC CUSTOM RATE
ROCK PICKER ROCK RAKE COMBINATIONS																
10 FT HYD	10300	60	25.20	3.22	28.42	28.42	4.26	32.69	28.42			57.31	8.60	65.91		
		80	19.96	3.22	23.18	23.18	3.48	26.65	23.18	19.89	9.00	52.06	7.81	59.87		
		100	17.00	3.22	20.21	20.21	3.03	23.25	20.21	95 HP		49.10	7.37	56.47		
20 FT HYD	13900	60	34.01	4.34	38.36	38.36	5.75	44.11	38.36			67.24	10.09	77.33		
		80	26.93	4.34	31.28	31.28	4.69	35.97	31.28	19.89	9.00	60.16	9.02	69.19		
		100	22.94	4.34	27.28	27.28	4.09	31.37	27.28	95 HP		56.17	8.42	64.59		
ROCK PICKERS																
FORK TYPE	3350	60	8.20	1.05	9.24	9.24	1.39	10.63	9.24			28.06	4.21	32.27		
		80	6.49	1.05	7.54	7.54	1.13	8.67	7.54	9.82	9.00	26.35	3.95	30.31		
		100	5.53	1.05	6.57	6.57	0.99	7.56	6.57	55 HP		25.39	3.81	29.20		
PADDLE TYPE HYD (3 PADDLE)	6300	60	15.42	1.97	17.38	17.38	2.61	19.99	17.38	46.27	6.94	53.21				
		80	12.21	1.97	14.18	14.18	2.13	16.30	14.18	19.89	9.00	43.06	6.46	49.52		
		100	10.40	1.97	12.36	12.36	1.85	14.22	12.36	95 HP		41.25	6.19	47.44		
PTO (3 PADDLE)	7100	60	17.37	2.22	19.59	19.59	2.94	22.53	19.59			40.40	6.06	46.46		
		80	13.76	2.22	15.98	15.98	2.40	18.37	15.98	11.81	9.00	36.78	5.52	42.30		
		100	11.72	2.22	13.93	13.93	2.09	16.02	13.93	65 HP		34.74	5.21	39.95		
GROUND (3 PADDLE)	6000	60	14.68	1.88	16.56	16.56	2.48	19.04	16.56			35.37	5.31	40.68		
		80	11.63	1.88	13.50	13.50	2.03	15.53	13.50	9.82	9.00	32.32	4.85	37.16		
		100	9.90	1.88	11.78	11.78	1.77	13.54	11.78	55 HP		30.59	4.59	35.18		
ROCK RAKES																
12 FT	5800	60	14.19	1.81	16.00	16.00	2.40	18.41	16.00			36.81	5.52	42.34		
		80	11.24	1.81	13.05	13.05	1.96	15.01	13.05	11.81	9.00	33.86	5.08	38.94		
		100	9.57	1.81	11.38	11.38	1.71	13.09	11.38	65 HP		32.19	4.83	37.02		
20 FT	7200	60	17.62	2.25	19.87	19.87	2.98	22.85	19.87			40.68	6.10	46.78		
		80	13.95	2.25	16.20	16.20	2.43	18.63	16.20	11.81	9.00	37.01	5.55	42.56		
		100	11.88	2.25	14.13	14.13	2.12	16.25	14.13	65 HP		34.94	5.24	40.18		
SPRAYERS																$/AC
400-500 GAL 60-70 FT	6700	30	26.00	6.03	32.03	32.03	4.80	36.84	32.03			49.85	7.48	57.33		2.12
		50	16.75	6.03	22.78	22.78	3.42	26.20	22.78	8.82	9.00	40.60	6.09	46.69	27.0	1.73
		70	12.85	6.03	18.88	18.88	2.83	21.71	18.88	45 HP		36.69	5.50	42.20	AC/HR	1.56
700-800 GAL 80-90 FT	9900	30	38.42	8.91	47.33	47.33	7.10	54.43	47.33			66.15	9.92	76.07		2.45
		50	24.75	8.91	33.66	33.66	5.05	38.71	33.66	9.82	9.00	52.48	7.87	60.35	31.0	1.95
		70	18.98	8.91	27.89	27.89	4.18	32.08	27.89	55 HP		46.71	7.01	53.72	AC/HR	1.73
700-800 GAL 95-105 FT	10300	30	39.97	9.27	49.24	49.24	7.39	56.63	49.24			68.06	10.21	78.27		2.14
		50	25.75	9.27	35.02	35.02	5.25	40.27	35.02	9.82	9.00	53.84	8.08	61.91	36.5	1.70
		70	19.75	9.27	29.02	29.02	4.35	33.37	29.02	55 HP		47.84	7.18	55.01	AC/HR	1.51
TRUCK MOUNT 250 GAL 40 FT	3000	30	11.64	2.70	14.34	14.34	2.15	16.49	14.34			38.60	5.79	44.38		0.89
		50	7.50	2.70	10.20	10.20	1.53	11.73	10.20	15.25	9.00	34.45	5.17	39.62	50.0	0.79
		70	5.75	2.70	8.45	8.45	1.27	9.72	8.45	3/4 TON		32.71	4.91	37.61	AC/HR	0.75
TRUCK MOUNT 325-450 GAL 52 FT	5300	30	20.57	4.77	25.34	25.34	3.80	29.14	25.34			49.59	7.44	57.03		1.14
		50	13.25	4.77	18.02	18.02	2.70	20.72	18.02	15.25	9.00	42.27	6.34	48.61	50.0	0.97
		70	10.16	4.77	14.93	14.93	2.24	17.17	14.93	3/4 TON		39.19	5.88	45.06	AC/HR	0.90
														Average Custom Rate Per Acre		1.43

NOTE: To include the cost of hauling water to the field add $0.40/ac

SWATHERS PTO STANDARD																$/AC
20-21 FT	10810	60	20.59	3.71	24.30	24.30	3.65	27.95	24.30			43.12	6.47	49.59		5.22
		100	13.88	3.71	16.98	16.98	2.56	19.62	16.98	9.82	9.00	36.79	5.37	41.16	9.5	4.33
		140	10.17	3.71	13.89	13.89	2.08	15.97	13.89	55 HP		32.70	4.91	37.61	AC/HR	3.96
24-25 FT	11300	60	21.93	3.96	25.88	25.88	3.88	29.76	25.88			44.70	6.70	51.40		4.47
		100	14.13	3.96	18.08	18.08	2.71	20.79	18.08	9.82	9.00	36.80	5.53	42.43	11.5	3.89
		140	10.83	3.96	14.79	14.79	2.22	17.01	14.79	55 HP		33.61	5.04	38.65	AC/HR	3.36
30 FT	12200	60	23.67	4.27	27.94	27.94	4.19	32.14	27.94	48.75			7.31	56.07		4.00
		100	15.25	4.27	19.52	19.52	2.93	22.45	19.52	11.81	9.00	40.33	6.05	46.38	14.0	3.31
		140	11.70	4.27	15.97	15.97	2.40	18.36	15.97	65 HP		36.78	5.52	42.29	AC/HR	3.02
					Average Rental Rate Per Acre			1.82						Average Custom Rate Per Acre		3.78
SWATHERS PTO DOUBLE SWATH																$/AC
40-42 FT	32000	60	62.10	11.20	73.30	73.30	10.99	84.29	73.30			102.18	15.33	117.51		13.82
		100	40.00	11.20	51.20	51.20	7.68	58.88	51.20	19.89	9.00	80.09	12.01	92.10	8.5	10.84
		140	30.68	11.20	41.88	41.88	6.28	48.16	41.88	95 HP		70.77	10.62	81.38	AC/HR	9.57
50 FT	38600	60	70.83	12.78	83.60	83.60	12.54	96.14	83.60			115.56	17.33	132.90		13.99
		100	45.60	12.78	58.40	58.40	8.76	67.16	58.40	22.98	9.00	90.36	13.55	103.91	9.5	10.94
		140	35.00	12.78	47.77	47.77	7.17	54.94	47.77	110 HP		79.73	11.96	91.69	AC/HR	9.65
					Average Rental Rate Per Acre			7.00						Average Custom Rate Per Acre		10.89

Drawn Equipment — Livestock & Forage

MACHINE SIZE	ORIG COST	ANN HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
BALE MOVERS																
LARGE ROUND																
6 BALES	6300	40	20 01	1 97	21 98	21 98	3 30	25.28	21 98			42 79	6 42	49 21		
		80	11 03	1 97	12.99	12.99	1.95	14.94	12.99	11.81	9 00	33.80	5 07	38 87		
		120	7 91	1 97	9 88	9 88	1 48	11.36	9 88	65 HP		30 69	4 60	35 29		
8 BALES	8800	40	27 96	2 75	30 71	30 71	4 61	35.31	30 71			57 23	8 58	65 81		
		80	15 40	2 75	18.15	18.15	2.72	20.87	18 15	17.52	9 00	44 87	6 70	51 37		
		120	11 05	2 75	13 80	13 80	2 07	15.87	13 80	85 HP		40 32	6 05	46 37		
12 BALES	12900	40	40 98	4 03	45 01	45 01	6 75	51 76	45 01			71 53	10 73	82 26		
		80	22 58	4 03	26 61	26 61	3 99	30 60	26 81	17.52	9 00	53 13	7 97	61 10		
		120	16 20	4 03	20 23	20 23	3 03	23.27	20 23	85 HP		46 75	7 01	53 77		
BALERS,LARGE ROUND																$/BALE
(excl twine)																
750-1000	12700	30	53 79	3 18	56 97	56 97	8 55	65.51	56 97			77 78	11 67	89 44		7.45
lbs		60	29 63	3 18	32 81	32 81	4 92	37.73	32 81	11 81	9 00	53 62	8 04	61 66	12 0	5.14
4X4 FT		90	21 27	3 18	24 44	24 44	3 67	28.11	24 44	65 HP		45 25	6 79	52 04	BLS/HR	4.34
1500-2000	15900	30	67 35	3 98	71 32	71 32	10 70	82.02	71 32			92 13	13 82	105 95		10.60
lbs		60	37 10	3 98	41 08	41 08	6 16	47.24	41 08	11 81	9 00	61 88	9 28	71 17	10 0	7.12
4X5 FT		90	26 63	3 98	30 60	30 60	4 59	35.19	30 60	65 HP		51 41	7 71	59 12	BLS/HR	5.91
3000 + lbs	18100	30	76 66	4 53	81 19	81 19	12 18	93.37	81 19			106 05	15 91	121 96		15.25
5X6 FT		60	42 23	4 53	46.76	46 76	7 01	53.77	46 76	15.86	9 00	71 62	10.74	82 36	8 0	10.30
		90	30 31	4 53	34 84	34 84	5 23	40 06	34 84	75 HP		59 70	8 95	68 65	BLS/HR	8.58
BALERS STANDARD																$/BALE
(EXCLUDES TWINE)																
SMALL	10300	40	36 05	2 58	38 63	38 63	5 79	44.42	38 63			59 43	8 92	68 35		0 46
		80	19.96	2.58	22.53	22.53	3 38	25.91	22.53	11.81	9 00	43.34	6 50	49.84	150.0	0.33
		120	14 67	2 58	17 24	17 24	2 59	19.83	17 24	65 HP		38 05	5 71	43 76	BLS/HR	0.29
MEDIUM	13500	40	47 25	3 38	50 63	50 63	7 59	58.22	50 63			71 43	10 72	82 15		0 47
		80	26 16	3.38	29 53	29 53	4 43	33 96	29 53	11 81	9 00	50.34	7 55	57.89	175 0	0.33
		120	19 22	3 38	22 60	22 60	3 39	25 99	22 60	65 HP		43 41	6 51	49 92	BLS/HR	0 29
LARGE	18000	40	63 00	4 50	67 50	67 50	10 13	77.63	67 50			88 31	13 25	101 56		0 51
		80	34.88	4 50	39 38	39.38	5 91	45 28	39 38	11 81	9 00	60.18	9 03	69.21	200.0	0 35
		120	25 63	4 50	30 13	30 13	4 52	34 65	30 13	65 HP		50 94	7 64	58 58	BLS/HR	0 29
					Average Rental Rate Per Bale			0 20						Average Custom Rate Per Bale		0.34

Drawn Equipment — Livestock & Forage

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG COST	ANN HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC CUSTOM RATE
BALE WAGONS																$/BALE
PTO																
83 BALE	15100	60	29 30	5 29	34 59	34 59	5 19	39.77	34 59			53 40	8 01	61 41		0 44
		100	18.88	5.29	24.16	24.16	3.62	27.78	24 16	9.82	9 00	42 98	6 45	49 42	140 0	0 35
		140	14 48	5 29	19 76	19 76	2 96	22.73	19 76	55 HP		38 58	5 79	44 37	BLS/HR	0 32
104 BALE	25600	60	49 68	8 96	58 64	58 64	8 80	67.43	58 64			83 50	12 52	96 02		0 48
		100	32.00	8.96	40 96	40 96	6 14	47.10	40.96	15.86	9 00	65 82	9 87	75 70	208 0	0 36
		140	24 55	8 96	33 51	33 51	5 03	38.53	33 51	75 HP		58 37	8 76	67 12	BLS/HR	0 32
					Average Rental Rate Per Bale			0.21						Average Custom Rate Per Bale		0 36
FORAGE HARVESTERS																
SMALL	14700	40	46 70	4 59	51 29	51 29	7 69	58.99	51 29			72 10	10 82	82 92		
		80	25.73	4.59	30.32	30.32	4 55	34.87	30.32	11 81	9.00	51.13	7 67	58.80		
		120	18 46	4 59	23 06	23 06	3 46	26.51	23 06	65 HP		43 87	6 58	50 45		
MEDIUM	20200	40	64 17	6 31	70 48	70 48	10 57	81.05	70 48			97 00	14 55	111 55		
		80	35.36	6.31	41.66	41.66	6 25	47.91	41 66	17 52	9 00	68 18	10 23	78 41		
		120	25 37	6 31	31 68	31 68	4 75	36.44	31 68	85 HP		58 20	8 73	66 94		
LARGE	24800	40	78 78	7 75	86 53	86 53	12 98	99.51	86 53			124 46	18 67	143 13		
		80	43.40	7.75	51.15	51.15	7.67	58.82	51 15	28 93	9 00	89 08	13 36	102 44		
		120	31 15	7 75	38 90	38 90	5 83	44.73	38 90	150 HP		76 83	11 52	88 35		
GRINDER MIXERS																
80-100 BUS	9500	100	13 02	1 90	14 92	14 92	2 24	17 15	14 92			41 44	6 22	47 65		
		200	7.36	1.90	9.26	9 26	1 39	10.65	9 26	17 52	9 00	35 78	5 37	41 15		
		300	5 41	1 90	7 31	7 31	1 10	8.41	7 31	85 HP		33 83	5 07	38 91		
120-150 BUS	13400	100	18 36	2 68	21 04	21 04	3 16	24 19	21 04			53 00	7 95	60 95		
		200	10.39	2.68	13.07	13.07	1.96	15.02	13 07	22 96	9 00	45 02	6 75	51 78		
		300	7 63	2 68	10 31	10 31	1 55	11.86	10 31	110 HP		42 27	6 34	48 61		

Drawn Equipment — Livestock & Forage

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG COST	ANN HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
HAY RAKES																$/AC
8.5 FT	3400	50	9.13	0.97	10.10	10.10	1.51	**11.61**	10.10			26.36	3.95	30.32		**8.74**
PARALLEL		70	**6.80**	**0.97**	7.77	7.77	1.17	**8.94**	7.77	7.26	9.00	**24.03**	**3.61**	**27.84**	4.5	**8.14**
BAR		90	5.55	0.97	6.52	6.52	0.98	**7.50**	6.52	35 HP		22.78	3.42	26.20	AC/HR	**5.82**
9.5 FT	4000	50	10.74	1.14	11.88	11.88	1.78	**13.66**	11.88			28.14	4.22	32.37		**8.47**
PARALLEL		70	**8.00**	1.14	**9.14**	**9.14**	1.37	**10.51**	**9.14**	**7.26**	**9.00**	**25.41**	**3.81**	**29.22**	**5.0**	**5.84**
BAR		90	6.53	1.14	7.67	7.67	1.15	**8.82**	7.67	35 HP		23.93	3.59	27.52	AC/HR	**5.50**
7.5 FT	2500	50	6.71	0.71	7.43	7.43	1.11	**8.54**	7.43			23.69	3.55	27.24		**6.81**
WHEEL		70	**5.00**	**0.71**	5.71	5.71	**0.86**	**6.57**	5.71	**7.26**	**9.00**	**21.98**	**3.30**	**25.27**	**4.0**	**6.32**
TYPE		90	4.08	0.71	4.79	4.79	0.72	**5.51**	4.79	35 HP		21.06	3.16	24.21	AC/HR	**6.05**
9 FT	3000	50	8.05	0.86	8.91	8.91	1.34	**10.25**	8.91			25.17	3.78	28.95		**5.79**
WHEEL		70	**6.00**	**0.86**	**6.86**	**6.86**	1.03	**7.89**	**6.86**	**7.26**	**9.00**	**23.12**	**3.47**	**26.59**	**5.0**	**5.32**
TYPE		90	4.89	0.86	5.75	5.75	0.86	**6.61**	5.75	35 HP		22.01	3.30	25.32	AC/HR	**5.06**
					Average Rental Rate Per Acre			**1.83**						Average Custom Rate Per Acre		**5.91**
LOOSE HAY STACKERS																$/T
3 TON	24600	40	78.15	7.69	85.83	85.83	12.88	**98.71**	85.83			114.72	17.21	131.93		**18.49**
		80	**43.05**	**7.69**	**50.74**	**50.74**	**7.61**	**58.35**	**50.74**	**19.89**	**9.00**	**79.62**	**11.94**	**91.57**	**8.0**	**11.45**
		120	30.90	7.69	38.58	38.58	5.79	**44.37**	38.58	95 HP		67.47	10.12	77.59	T/HR	**9.70**
6+ TON	38700	40	122.94	12.09	135.03	135.03	20.25	**155.29**	135.03			166.99	25.05	192.04		**13.72**
		80	**67.73**	**12.09**	**79.82**	**79.82**	**11.97**	**91.79**	**79.82**	**22.98**	**9.00**	**111.78**	**16.77**	**128.54**	**14.0**	**9.18**
		120	48.61	12.09	60.70	60.70	9.10	**69.80**	60.70	110 HP		92.66	13.90	106.56	T/HR	**7.61**
					Average Rental Rate Per Tonne			**6.83**						Average Custom Rate Per Tonne		**10.31**
LOOSEHAY STACK MOVERS																
3 TON	4200	40	13.34	1.31	14.65	14.65	2.20	**16.85**	14.65			35.46	5.32	40.78		
		80	**7.35**	**1.31**	**8.66**	**8.66**	**1.30**	**9.96**	**8.66**	**11.81**	**9.00**	**29.47**	**4.42**	**33.89**		
		120	5.28	1.31	6.59	6.59	0.99	**7.58**	6.59	65 HP		27.40	4.11	31.51		
6 TON PLUS	10700	40	33.99	3.34	37.33	37.33	5.60	**42.93**	37.33			66.22	9.93	76.15		
		80	**18.73**	**3.34**	**22.07**	**22.07**	**3.31**	**25.38**	**22.07**	**19.89**	**9.00**	**50.96**	**7.64**	**58.60**		
		120	13.44	3.34	16.78	16.78	2.52	**19.30**	16.78	95 HP		45.67	6.85	52.52		

Drawn Equipment — Livestock & Forage

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG COST	ANN HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
MANURE SPREADERS																
70-90	3920	60	9 59	1 23	10 82	10 82	1 62	12.44	10 82			29 63	4 44	34 08		
CUBIC FT		80	7 60	1 23	8 82	8.82	1 32	10.14	8 82	9.82	9 00	27 64	4 15	31 78		
LEVEL		100	6 47	1 23	7 69	7 69	1 15	8.85	7 69	55 HP		26 51	3 98	30 49		
91-120	4560	60	11 16	1 43	12 58	12 58	1 89	14 47	12 58			31 40	4 71	36 11		
CUBIC FT		80	8.84	1.43	10.26	10.26	1.54	11 80	10.26	9 82	9 00	29 08	4 36	33 44		
LEVEL		100	7 52	1 43	8 95	8 95	1 34	10.29	8 95	55 HP		27 77	4 16	31 93		
121-150	6490	60	15 88	2 03	17 91	17 91	2 69	20 60	17 91			38 72	5 81	44 53		
CUBIC FT		80	12.57	2.03	14.60	14.60	2.19	16.79	14.60	11.81	9 00	35.41	5.31	40 72		
LEVEL		100	10 71	2 03	12 74	12 74	1 91	14.65	12 74	65 HP		33 55	5 03	38 58		
151-200	7800	60	19 09	2 44	21 52	21 52	3 23	24.75	21 52			46 39	6 96	53 34		
CUBIC FT		80	15.11	2.44	17.55	17.55	2.63	20.18	17.55	15.86	9 00	42.41	6.36	48.77		
LEVEL		100	12 87	2 44	15 31	15 31	2 30	17.60	15 31	75 HP		40 17	6 02	46 20		
201-250	10190	60	24 93	3 18	28 12	28 12	4 22	32.34	28 12			54 64	8 20	62 84		
CUBIC FT		80	19.74	3.18	22.93	22.93	3.44	26.37	22 93	17.52	9 00	49.45	7.42	56.87		
LEVEL		100	16 81	3 18	20 00	20 00	3 00	23.00	20 00	85 HP		46 52	6 98	53 50		
MANURE SPREADERS LIQUID																
1200-1400	9900	120	12 11	1 77	13 88	13 88	2 08	15.96	13 88			38 74	5 81	44 56		
GAL		140	10.96	1 77	12.73	12.73	1 91	14.64	12 73	15.86	9 00	37 50	5 64	43 23		
		160	10 21	1 77	11 98	11 98	1 80	13.77	11 98	75 HP		36 84	5 53	42 37		
1800-2200	13000	120	15 91	2 32	18 23	18 23	2 73	20.96	18 23			43 09	6 46	49 55		
GAL		140	14.39	2.32	16.71	16.71	2.51	19.22	16.71	15 86	9 00	41 58	6 24	47 81		
		160	13 41	2 32	15 73	15 73	2 36	18.09	15 73	75 HP		40 59	6 09	46 68		
MOWER CONDITIONERS																$/AC
7 FT	10200	50	27 38	3 64	31 03	31 03	4 65	35.68	31 03			48 84	7 33	56 17		16 05
		70	20.40	3.64	24.04	24.04	3.61	27.65	24.04	8 82	9 00	41.86	6 28	48.14	3 5	13 75
		90	16 64	3 64	20 28	20 28	3 04	23.32	20 28	45 HP		38 10	5 71	43 81	AC/HR	12 52
9 FT	12100	50	32 48	4 32	36 80	36 80	5 52	42.33	36 80			54 62	8 19	62 81		13 96
		70	24.20	4.32	28.52	28.52	4.28	32.80	28.52	8 82	9 00	46.34	6 95	53.29	4 5	11 84
		90	19 74	4 32	24 06	24 06	3 61	27.67	24 06	45 HP		41 88	6 28	48 16	AC/HR	10 70
12 FT	17900	50	48 05	6 39	54 45	54 45	8 17	62.61	54 45			73 26	10 99	84 25		14 04
		70	35.80	6.39	42.19	42.19	6.33	48.52	42 19	9 82	9 00	61.01	9 15	70 16	6.0	11 69
		90	29 20	6 39	35 59	35 59	5 34	40.93	35 59	55 HP		54 41	8 16	62 57	AC/HR	10 43
14 FT	19700	50	52 89	7 03	59 92	59 92	8 99	68.91	59 92			78 74	11 81	90 55		12 94
		70	39.40	7.03	46.43	46.43	6.97	53.40	46.43	9.82	9 00	65.25	9.79	75.04	7 0	10 72
		90	32 14	7 03	39 17	39 17	5 88	45.05	39 17	55 HP		57 99	8 70	66 69	AC/HR	9 53
					Average Rental Rate Per Acre			7.73						Average Custom Rate Per Acre		12.00

Drawn Equipment — Livestock & Forage

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG COST	ANN HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR	TOTAL COSTS PER HOUR (NO LABOUR) $/HR	BASIC RENTAL COSTS $/HR	MARGIN $/HR	RENTAL RATE $/HR	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR	MARGIN $/HR	CUSTOM RATE $/HR	WORK RATE	CALC. CUSTOM RATE
MOWERS SICKLE TRAILING																$/AC
7 FT	4080	50	10 95	1 46	12 41	12 41	1 86	14.27	12 41			28 67	4 30	32 97		9.42
		70	8 16	1 46	9 62	9.62	1 44	11.06	9 62	7.26	9 00	25.88	3 88	29.76	3.5	8.50
		90	6 66	1 46	8 11	8 11	1 22	9.33	8 11	35 HP		24 38	3 66	28 03	AC/HR	8.01
9 FT	4250	50	11 52	1 53	13 05	13 05	1 96	15.01	13 05			29 31	4 40	33 71		7.49
		70	8 58	1 53	10 11	10 11	1 52	11.63	10 11	7.26	9 00	26.37	3 96	30.33	4.5	6.74
		90	7 00	1 53	8 53	8 53	1 28	9.81	8 53	35 HP		24 79	3 72	28 51	AC/HR	6.34
					Average Rental Rate Per Acre			2.87						Average Custom Rate Per Acre		7.82
POST POUNDERS																
	2850	80	5 23	0 48	5 71	5 71	0 86	6.57	5 71			24 53	3 68	28 21		
		100	4 42	0 48	4 90	4 90	0 74	5.64	4 90	9.82	9 00	23.72	3 56	27.28		
		200	3 92	0 48	4 40	4 40	0 66	5.06	4 40	55 HP		23 22	3 48	26 70		
					Average Rental Rate Per Hour			5.84						Average Custom Rate Per Hour		27.28
ROTARY CUTTERS																
5 FT	9500	50	2 55	0 27	2 82	2 82	0 42	3.25	2 82			21 64	3 25	24 88		
3PH		70	1 90	0 27	2 17	2.17	0 33	2.50	2 17	9.82	9 00	20 99	3 15	24.14		
		90	1 55	0 27	1 82	1 82	0 27	2.09	1 82	55 HP		20 64	3 10	23 73		
6 7 8 1 HD	2750	50	7 25	0 77	8 02	8 02	1 20	9.22	8 02			26 84	4 03	30 86		
3PH		70	5 40	0 77	6 17	6 17	0 93	7.10	6 17	9.82	9 00	24 99	3 75	28.74		
		90	4 40	0 77	5 18	5 18	0 78	5.95	5 18	55 HP		23 99	3 60	27 59		
10 FT	5800	50	15 57	1 66	17 23	17 23	2 58	19.81	17 23			38 04	5 71	43 74		
		70	11 60	1 66	13 26	13 26	1 99	15.25	13 26	11.81	9 00	34 07	5 11	39.18		
		90	9 46	1 66	11 12	11 12	1 67	12.79	11 12	65 HP		31 93	4 79	36 72		
15 FT	10500	50	28 19	3 00	31 19	31 19	4 68	35.87	31 19			56 05	8 41	64 46		
		70	21 00	3 00	24 00	24 00	3 60	27.60	24 00	15.86	9 00	48.86	7.33	56.19		
		90	17 13	3 00	20 13	20 13	3 02	23.15	20 13	75 HP		44 99	6 75	51 74		
TUB GRINDERS																
8 TON	15100	100	21 14	3 02	24 16	24 16	3 62	27.78	24 16			56 12	8 42	64 54		
		200	11.70	3 02	14.72	14 72	2 21	16.93	14 72	22.98	9.00	46.68	7.00	53.68		
		300	8 60	3 02	11 62	11 62	1 74	13.36	11 62	110 HP		43 58	6 54	50 12		

Drawn Equipment — Miscellaneous

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC CUSTOM RATE
FRONT-END LOADERS																
STANDARD	4240	80	6 43	0 85	7 27	7 27	1 09	8.37	7 27			28 08	4 21	32 30		
W/BUCKET		100	5.30	0.85	6.15	6.15	0.92	7.07	6.15	11.81	9.00	26.96	4.04	31.00		
		120	4 57	0 85	5 42	5 42	0 81	6.23	5 42	65 HP		26 23	3 93	30 16		
HEAVY DUTY	5160	80	7 82	1 03	8 85	8 85	1 33	10.18	8 85	37 74			5 66	43 40		
W/BUCKET		100	6.45	1.03	7.48	7.48	1.12	8.60	7.48	19.89	9.00	36 37	5.46	41.82		
		120	5 56	1 03	6 59	6 59	0 99	7.58	6 59	95 HP		35 48	5 32	40 80		
SCRAPERS																
6 YARD	10100	60	24 71	3 16	27 87	27 87	4 18	32.05	27 87			65 80	9 87	75 67		
		80	19.57	3.16	22.73	22.73	3.41	26.13	22.73	28 93	9.00	60 66	9.10	69.76		
		100	16 67	3.16	19 82	19 82	2 97	22.79	19 82	150 HP		57 75	8 66	66 42		
8 YARD	13400	60	32 79	4 19	36 98	36 98	5 55	42.52	36 98			79 43	11 92	91 35		
		80	25.96	4.19	30.15	30.15	4.52	34.67	30.15	33.46	9.00	72.61	10 89	83.50		
		100	22 11	4 19	26 30	26 30	3 94	30.24	26 30	170 HP		68 76	10 31	79 07		
SNOW BLOWERS																
FRONT MOUNT	5200	20	29 90	4 55	34 45	34 45	5 17	39.62	34 45			63 34	9 50	72 84		
7 FT		40	16.25	4.55	20.80	20.80	3.12	23.92	20.80	19.89	9.00	49.69	7.45	57.14		
		100	8.06	4 55	12 61	12 61	1.89	14.50	12 61	95 HP		41 50	6 22	47 72		
FRONT MOUNT	5400	20	31 05	4 73	35 78	35 78	5 37	41.14	35 78			64 66	9 70	74 36		
8 FT		40	16.88	4.73	21.60	21.60	3.24	24.84	21.60	19 89	9.00	50 49	7 57	58.06		
		100	8 37	4 73	13 10	13 10	1 96	15.06	13 10	95 HP		41 98	6 30	48 28		
REAR MOUNT	2500	20	14.38	2 19	16 56	16 56	2 48	19.05	16 56			37 37	5 61	42 98		
7 FT		40	7.81	2.19	10.00	10.00	1.50	11.50	10.00	11.81	9.00	30.81	4.62	35.43		
		100	3.88	2.19	6.06	6 06	0 91	6.97	6 06	65 HP		26 87	4 03	30 90		
REAR MOUMT	3400	20	19.55	2 98	22 53	22 53	3 38	25.90	22 53			43 33	6 50	49 83		
8 FT		40	10.63	2.98	13.60	13.60	2.04	15.64	13.60	11.81	9.00	34.41	5.16	39.57		
		100	5 27	2 98	8 25	8 25	1 24	9.48	8 25	65 HP		29 05	4 36	33 41		

Appendix A

Custom Grain Hauling

A. **Farm to Market** 0 to 25 miles
(a) Truck - 3 Ton, 320 Bushel: Truck Costs $36.63/hour (excl. labour)
(b) Auger - 7 x 40' Gas Engine: Auger Costs $7.16/hour (excl. labour)
(c) Labour - $9.00/hour
(d) Unload Time: 10 minutes at elevator (truck engine and PTO running 5 minutes)

Distances to Market (miles)	**3**	**6**	**9**	**12**	**15**	**20**	**25**
Auger Costs Per Load	$ 2.39	$ 2.39	$ 2.39	$ 2.39	$ 2.39	$ 2.39	$ 2.39
Time minutes	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Truck Costs Per Load	$10.38	$15.87	$21.37	$26.25	$30.53	$35.41	$43.96
Time minutes (incl. 5 min. unload time)	(17)	(26)	(35)	(43)	(50)	(58)	(72)
Labour Costs Per Load	$ 6.30	$ 7.65	$ 9.00	$10.20	$11.25	$12.45	$14.55
Total Time: minutes	(42)	(51)	(60)	(68)	(75)	(83)	(97)
Total Cost Per Load	$19.07	$25.91	$32.76	$38.84	$44.17	$50.25	$60.90
Margin Per Load (15%)	$ 2.86	$ 3.89	$ 4.91	$ 5.83	$ 6.63	$ 7.54	$ 9.14
Custom Rate Per Load (320 bushel load)	$21.93	$29.80	$37.67	$44.67	$50.80	$57.79	$70.04
Custom Rate/Bushel	6.9¢	9.3¢	11.8¢	14.0¢	15.9¢	18.1¢	21.9¢

Custom Rate from farm to market is 7¢ for the first 3 miles plus .7¢/bushel for each additional mile up to 25 miles.

B. **Example of Trucking Seed to Field**
Assume
- seeding 160 acres with 30' discer (12 hours)
- 3 ton truck costs $36.63/hr
- truck running time includes - loading 5 min. = = .08 hrs.
  - driving to & from field 15 min. = .25 hrs.
  - running time in field 12 hrs. x 20% = 2.4 hours
  2.73 hours

Truck Cost is $36.63/hr x 2.73 hrs. = $100.00

Labour Cost*
Loading truck = .25 hr
Driving truck to and from field = $\frac{.25 \text{ hr}}{.5 \text{ hr}} \times \$9/\text{hr} = \frac{\$\ 4.50}{\$104.50}$

Truck and labour cost for 160 acres
Truck and labour cost per acre $\frac{\$104.50}{160} = \$.65/\text{ac}$

If one truck is used for fertilizer and one for seed the trucking cost per acre would be 2 x $.62 = $1.24/ac.

*Labour cost is not calculated for the truck running time in the field because the tractor and truck have the same operator.

C. **Field to Yard**

(a) Truck - 3 Ton, 260 Bushel Trip: Truck Costs $36.63/hour (excl. labour)
(b) Auger - 7 x 40' Gas Engine Auger Costs $7.16/hour (excl. labour)
(c) Labour - $9.00/hour
(d) Unload Time 11 minutes at Bin (truck engine and PTO running 5 minutes)

(1) **Time Use**

Distance: Field to Yard (Miles)	1/2	1	1 1/2	2	3	4
Travel Time to Yard and Return	4 min.	6.5 min.	8.5 min.	10 min.	12 min.	15 min.
Total Unload Time at Bin	11 min.	11 min.	11 min.	11 min.	11 min.	11 min
(Time truck running during unload at bin)	(5 min.)	(5 min.)	(5 min.)	(5 min.)	(5 min.)	(5 min.)
Time Unload at Combine(s) and Travel in Field Unload Twice from one combine or one each from two combines	10 min.	10 min.	10 min.	10 min.	10 min.	10 min.
Time/Trip Truck Running	19 min.	21.5 min.	23.5 min.	25 min.	27 min.	30 min
Waiting Time in Field (Truck Not Running)						
(a) hauling from one combine	47 min.	44.5	42.5 min.	41 min.	39 min.	36 min.
(b) hauling from two combines	11 min.	8.5 min.	6.5 min.	5 min.	3 min.	0 min.
Total Time/Trip						
(a) hauling from one combine	72 min.	72 min.	72 min.	72 min.	72 min.	72 min.
(b) hauling from two combines	36 min.	36 min.	36 min.	36 min.	36 min.	36 min.
(2) **Costs Components/Trip**						
(a) Truck Costs/Trip	$11.60	$13.13	$14.35	$15.26	$16.48	$18.62
(b) Auger Costs/Trip	$ 1.31	$ 1.31	$ 1.31	$ 1.31	$ 1.31	$ 1.31
(c) Labour Costs/Trip						
- hauling from one combine	$10.80	$10.80	$10.80	$10.80	$10.80	$10.80
- hauling from two combines	$ 5.40	$ 5.40	$ 5.40	$ 5.40	$ 5.40	$ 5.40
(3) **Custom Rate/Hour (incl. 15% margin)**						
Hauling from one combine	$22.72	$24.19	$25.36	$26.23	$27.40	$29.45
Hauling from two combines	$35.09	$38.03	$40.37	$42.11	$44.45	$48.55
(4) **Custom Rate/Bushel (incl. 15% margin)**						
Hauling from one combine (217 bu/hr)	10.5¢	11.1¢	11.7¢	12.1¢	12.6¢	13.6¢
Hauling from two combines (433 bu/hr)	8.1¢	8.8¢	9.3¢	9.7¢	10.3¢	11.2¢

Custom Rate from field to yard hauling from one combine is 11¢/bushel for the first mile plus .8¢/bushel for each additional mile.

Appendix B

Combine Cleaning and Separating Area (in^2)
(excluding rotary combines)

Model No.	Clean and Sep. Area* sq in	Model No.	Clean and Sep. Area* sq in
Co-op Implements		**Massey Ferguson**	
2850	17,778	550	10,684
		850	13,733
Gleaner (Allis-Chalmers)		852	12,336
F[3]	11,487	860	16,245
M[3]	15,205		
L[3]	17,986		
John Deere			
4420	11,070		
6601	11,476		
6620	12,417		
7720 & 7721	15,511		
8820	18,644		

* This figure represents the sum of the separating area and the cleaning area. Separating area includes the area of the straw walkers, concaves, and transition grate. Cleaning area is a chaffer sieve, chaffer extension and cleaning sieve.

Combine Threshing Capacities (Wheat)

Combine Size	Approx. bus/hour Field Efficiency (100%)	(69%)	Approx. ac/hour Field Efficiency (100%)	(69%)
Self Propelled				
8,000-10,000 sq in	180	125	6.5	4.5
10,000-12,000 sq in	220	150	8.0	5.5
12,000-14,000 sq in	285	195	10.0	7.0
14,000-17,000 sq in	340	235	13.0	9.0
17,000 + sq in	400	275	14.5	10.0
Pull Type				
12,000-18,000 sq in	320	220	11.5	8.0

Rotary Combines	
S.P.	Model
Small (5.5-8.5 ac/hr)	CIH 1620, CIH 1640
Medium(6.5-10.5 ac/hr)	CIH 1660, NHTR86, DAR60, DAR50
Large (11-14 ac/hr)	CIH 1680, DAR7, NHTR96, MF8650
P.T.O.	
Large	CIH 1682, V2000

Appendix C

Rental Rate Calculation Worksheet

Machine _____ Original Cash Cost $ _____

Basic Rental Cost (Per Hour)

Fixed Costs: _____ (Rate/hr*) x _____ (No. of $1000 orig. cash cost) = $_____/hr (A)

Repairs: _____ (Rate/hr*) x _____ (No. of $1000 orig. cash cost) = $_____/hr (B)

Basic Rental Cost (A + B) = $_____/hr (C)

Rental Margin = _____ (Suggested Rate 15%) x _____ (Basic Rental Costs (C)) = $_____/hr (D)

Rental Rate Per Hour (C + D) $_____/hr

*Refer to "Machinery Cost Calculation Guides", Appendix F, col. D for fixed Costs, col. E for repair costs - rate per hour.

Appendix D

Custom Rate Calculation Worksheet

Operation _____

Power Unit _____ (Tractor, SP Machine) Original Cash Cost $ _____

Machine _____ (Tillage Implements, PTO Machine, Other) Original Cash Cost $_____

Power Unit Costs (Per Hour)

Fixed Costs = _____ (Rate/hr*) x _____ (No. of $1000 Orig. cash cost) = $_____/hr (1)

Variable Costs

Fuel = _____ (Litre/hr) x _____ (Price/Litre) = $_____/hr (2)

Oil & Grease $.35/100 Hp = $_____/hr (3)

Repairs = _____ (Rate/hr*) x _____ (No. of $1000 Orig. cash cost) = $_____/hr (4)

Total Cost of Power Unit (per hour) 1 + 2 + 3 + 4 = $_____/hr (A)

Machine Costs (Per Hour)

Fixed Costs = _____ (Rate/hr*) x _____ (No. of $1000 Orig. Cash Cost) = $_____/hr (5)

Variable Costs = _____ (Rate/hr*) x _____ (No. of $1000 Orig. Cash Cost) = $_____/hr (6)

Total Costs of Machinery (5 + 6) $_____/hr (B)

Labour Cost per hour $_____/hr (C)

Total Cost of Power Unit, Machine and operator (A + B + C) $_____/hr (D)

Margin per hour _____ (Suggested rate 15%) x $ _____/hr (D) = $_____/hr (E)

Custom Rate per hour Total Cost + Margin (D & E) $_____/hr (F)

* Refer to Machinery Cost Calculation Guides (Appendix F) for fixed costs (column D) and repair costs (column E) rate per hour.

Work rate (acres/hr)** _____ /hr (G)

Custom rate per acre** F/G $ _____ /acre

** Where appropriate, substitute acres with other units (e.g. bales, tons).

Appendix E

Formulas Used in Calculations

A. Fixed costs per hour are the sum of (1) Depreciation, (2) Investment Costs, (3) Insurance and Housing.

i) Depreciation/hr = $\dfrac{\dfrac{\text{Original Cash Cost - Salvage Value}}{\text{Years Lifetime}}}{\text{Annual Hours Use}}$

ii) Investment Cost/hr = $\dfrac{\dfrac{\text{Original Cash Cost + Salvage Value x 10\%*}}{2}}{\text{Annual Hours Use}}$

iii) Insurance & Housing/hr = $\dfrac{\text{Original Cash Cost x 1\%}}{\text{Annual Hours Use}}$

The short cut method calculates fixed costs on an hourly basis per $1000 of original cost.

$\dfrac{\text{Original Cost}}{1000}$ x applicable cost factor from Appendix F, Column D

B. Repair Costs are calculated on an hourly basis per $1,000 original cost

$\dfrac{\text{Original Cost}}{1000}$ x Applicable cost factor from Appendix F, Column E.

Acres Per Hour

- Tillage Operations (82.5% field efficiency) $\dfrac{\text{Machine Width (ft) x Speed (mph)}}{10}$
- Seeding and Harvesting (69% field efficiency) $\dfrac{\text{Machine Width (ft) x Speed (mph)}}{12}$
- No Till Seeding** (63% field efficiency) $\dfrac{\text{Machine Width (ft) x Speed (mph)}}{13}$

* 10% assumes 50% borrowed - 50% owned

** Reduced seeding rate is due to increased fertilizing rates and more difficult seeding conditions (ie. straw)

Appendix F

MACHINERY COST CALCULATION GUIDES

MACHINE	A ANNUAL USE HRS	B DEP'N LIFE YRS	C AVERAGE ANNUAL REPAIR RATE % ORIG. CASH COST	D FIXED COST/ HOUR/ $1000 ORIG. CASH COST	E REPAIR COST/ HOUR/ $1000 ORIG. CASH COST
POWERED EQUIPMENT					
BALE WAGONS SP	60	17.5		1.9405	
	100	15	2	1.2500	0.2000
	140	13		0.9588	
COMBINES SP	120	13		1.1186	
(INCL ROTARY)	150	12	4.5	0.9333	0.3000
	180	11		0.8157	
	350	8.5		0.4882	
GRAIN AUGERS	25	18		4.6000	
	50	15	2	2.5000	0.4000
	75	13		1.7897	
SPRAYERS	30	17.5		3.8810	
	50	15	4.5	2.5000	0.9000
	70	13		1.9176	
SWATHERS SP	60	17.5		1.9405	
	100	15	2	1.2500	0.2000
	140	13		0.9588	
TRACTORS 2WD	400	14.5		0.3177	
	600	13.0	5.00	0.2237	0.0833
	800	11.5		0.1791	
TRACTORS 4WD	400	14.5		0.3177	
	600	13.0	4.00	0.2237	0.0667
	800	11.5		0.1791	
TRUCKS GRAIN	200	10.5		0.7536	
	250	10	8.5	0.6200	0.2600
	300	9.5		0.5325	
TRUCKS 1/2 TON	200	10.5		0.7536	
	250	10	4.9	0.6200	0.1960
	300	9.5		0.5325	
DRAWN EQUIPMENT — GRAIN					
AIRSEEDERS	100	17		1.1794	
	150	15	4.5	0.8333	0.3000
	200	13.5		0.6583	
BULK APPLICATORS	60	11		2.4470	
(GRANULES)	80	10	2.5	1.9375	0.3125
	100	9		1.6500	
COMBINES PTO	120	13		1.1186	
(INCL ROTARY)	150	12	7	0.9333	0.4667
	180	11		0.8157	
	350	8.5		0.4882	
CULTIVATORS - FIELD	150	17.5	SAND-CLAY	0.7762	
- H.D.	250	15	3.0-8.0	0.5000	0.2200
	350	13		0.3835	
DISCERS &	100	17		1.1794	
DISCS TANDEM	150	15	4.5	0.8333	0.3000
	200	13.5		0.6583	
DRILLS SEED	60	17.5		1.9405	
	100	15	4.5	1.2500	0.4500
	140	13		0.9588	
HARROWS	60	19.6		1.8486	
	100	17	4.3	1.1794	0.4300
	140	15		0.8829	
HARROW-PACKERS	60	19.6		1.8486	
	100	17	4.3	1.1794	0.4300
	140	15		0.8829	

Appendix F (cont'd)

MACHINERY COST CALCULATION GUIDES

MACHINE	A ANNUAL USE HRS	B DEP'N LIFE YRS	C AVERAGE ANNUAL REPAIR RATE % ORIG. CASH COST	D FIXED COST/ HOUR/ $1000 ORIG. CASH COST	E REPAIR COST/ HOUR/ $1000 ORIG. CASH COST
PLOWS	100	17 5		1 1643	
	150	15	8 25	0 8333	0 5500
	200	13		0 6712	
PNEUMATIC GRAIN MOVERS	25	18		4 6000	
	50	15	2	2 5000	0 4000
	75	13		1 7897	
RODWEEDERS	60	17 5		1 9405	
	100	15	5 5	1 2500	0 5500
	140	13		0 9588	
ROCK PICKER,ROCK RAKE COMBINATIONS	60	11		2 4470	
	80	10	2 5	1 9375	0 3125
	100	9		1 6500	
ROCK PICKERS	60	11		2 4470	
	80	10	2 5	1 9375	0 3125
	100	9		1 6500	
ROCK RAKES	60	11		2 4470	
	80	10	2 5	1 9375	0 3125
	100	9		1 6500	
SPRAYERS	30	17 5		3 8810	
	50	15	4 5	2 5000	0 9000
	70	13		1 9176	
SWATHERS PTO	60	17 5		1 9405	
	100	15	3 5	1 2500	0 3500
	140	13		0 9588	
DRAWN EQUIPMENT — LSTK. & FORAGE					
BALE MOVERS	40	14 5		3 1767	
	80	12	2 5	1 7500	0 3125
	120	10 5		1 2560	
BALERS LGE. ROUND	30	14 5		4 2356	
	60	12	1 5	2 3333	0 2500
	90	10 5		1 6746	
BALERS STANDARD	40	12		3 5000	
	80	10	2	1 9375	0 2500
	120	8 5		1 4240	
BALE THROWERS	40	12		3 5000	
	80	10	2	1 9375	0 2500
	120	8 5		1 4240	
BALE WAGONS PTO	60	17 5		1 9405	
	100	15	3 5	1 2500	0 3500
	140	13		0 9588	
FORAGE HARVESTERS	40	14 5		3 1767	
	80	12	2 5	1 7500	0 3125
	120	10 5		1 2560	
GRINDER MIXERS	100	12.5		1 3700	
	200	10	4	0 7750	0 2000
	300	8 5		0 5696	
HAY RAKES	50	13		2 6846	
	70	12	2	2 0000	0 2857
	90	11		1 6313	
LOOSE HAY - STACKERS - MOVERS	40	14 5		3 1767	
	80	12	2 5	1 7500	0 3125
	120	10 5		1 2560	
MANURE SPREADERS	60	11		2 4470	
	80	10	2 5	1 9375	0 3125
	100	9		1 6500	
MANURE SPREADERS -LIQUID	120	11		1 2235	
	140	10	2 5	1 1071	0 1786
	160	9		1 0313	

Appendix F (cont'd)

MACHINERY COST CALCULATION GUIDES

MACHINE	A ANNUAL USE HRS	B DEP'N LIFE YRS	C AVERAGE ANNUAL REPAIR RATE % ORIG. CASH COST	D FIXED COST/ HOUR/ $1000 ORIG. CASH COST	E REPAIR COST/ HOUR/ $1000 ORIG. CASH COST
MOWERS - CONDITIONER	50	13		2 6846	
- SICKLE	70	12	2 5	2 0000	0 3571
	90	11		1 6313	
POST POUNDERS	80	11		1 8352	
	100	10	1 7	1 5500	0 1700
	120	9		1 3750	
ROTARY CUTTERS	50	13		2 6846	
	70	12	2	2 0000	0 2857
	90	11		1 6313	
TUB GRINDERS	100	12		1 4000	
	200	10	4	0 7750	0 2000
	300	8 5		0 5696	
DRAWN EQUIPMENT — MISCELLANEOUS					
FRONT END LOADERS	80	16		1 5156	
	100	15	2	1 2500	0 2000
	120	14		1 0774	
SCRAPERS	60	11		2 4470	
	80	10	2 5	1 9375	0 3125
	100	9		1 6500	
SNOW BLOWERS	20	18		5 7500	
	40	15	3 5	3 1250	0 8750
	100	10		1 5500	

Appendix G

Factors to consider When Custom Hiring

Custom hiring is a business arrangement. The terms of the arrangement should be written in a formal agreement. If unwritten, the terms are more likely to be misunderstood in case of a dispute. The following should be considered in a custom hiring agreement.

Timeliness

Significant losses can occur if an operation is not started or completed on time. To facilitate planning, a custom hiring agreement should include a schedule of operations for both parties. For example, when the custom combiner is picking up swathed grain, the schedule would outline time periods for swathing by the owner and combining by the custom operator. Such a schedule would be subject to weather conditions and crop maturity.

Operations

The parties should write into the agreement the exact operations to be performed by each party and the machine, materials and labour to be supplied by each.

Rate Schedule

The custom operator should stipulate the rate for each operation to be performed on the basis of acreage, time (hour, day, week) or total operation performed.

Management

A custom hiring agreement should ensure that the custom operator will employ acceptable management practices in his operations.

Terms of Payment

A custom hiring agreement should stipulate terms of payment for custom operations. As well the custom operator should bill the client upon the completion of each custom operation. The bill should indicate actual units (hours, acres, etc.) completed, the rate charged per unit, the total charge and the date payment is due.

Termination

A minimum period for notice of termination should be included in a custom hiring agreement. A penalty should be stipulated for unjustified termination within the term of the agreement.

Insurance

A custom operator may be considered differently than a farmer when insuring. It is advised that this point be clarified with the insurance company if one considers doing custom work or renting equipment.

Guide to Planning a Custom Farming Agreement

Section A

_____, hereinafter referred to as the "custom operator", agrees to conduct the following types of machine operations on the described farm land of _____, hereinafter referred to as the "owner", located at _____, Saskatchewan, for the year 19_____.

Description of Machine operation	Legal Location	Acres	Fee Per Acre

Note: Be specific about what each machine operation includes (i.e., harvesting - does it include swathing, combining with pickup and hauling the grain to the storage facility, or straight cutting the crop and hauling the grain?)

Section B

The custom operator agrees to complete the said machine operations according to the following schedule:

Machine Operations	Commencement Date	Completion Date

Section C

If during the term hereof, any of the goods and chattels of the custom operator are seized by any creditor, this agreement is forfeited and void.

The term owner and custom operator shall include the executors, administrators and assigns of the owner and custom operator, respectively.

_____ _____

Witness Owner

_____ _____

Witness Customer Operator